Reg. No. G-2/RNP/GOA/32/2015-2017

RNI No. GOAENG/2002/6410

Panaji, 20th June, 2017 (Jyaistha 30, 1939)

SERIES I No. 11

OFFICIAL GAZETTE

GOVERNMENT OF GOA

PUBLISHED BY AUTHORITY

EXTRAORDINARY

No. 2

GOVERNMENT OF GOA

Department of Power

Office of the Chief Electrical Engineer

Notification

120/03/JERC/MYT/CEE/Tech

The Electricity Department, Government of Goa, filed its petition for Annual Performance Review of FY 2015-16 & FY 2016-17, Retail supply Tariff for FY 2017-18 and True-up for FY 2011--12 & FY 2012-13, according to the Regulations and as per the procedures outlined in Section 61, 62 & 64 of the Electricity Act, 2003, before the Hon'ble Joint Electricity Regulatory Commission for the State of Goa and Union Territories.

In exercise of the powers conferred under various sections of the Electricity Act, 2003 and all powers enabling therein, on behalf of the Joint Electricity Regulatory Commission for the State of Goa and Union Territories, has issued the Tariff Order dated 23rd May, 2017 for Determination of Tariff for FY 2017-18, Annual Performance Review of FY 2015-16 and FY 2016-17 & True-up for FY 2011-12 & FY 2012-13 with effective from 1st April 2017 and shall remain valid till issuance, of further Orders of the Commission, for the Electricity Department, Government of Goa.

The above is hereby brought to the notice of the general public.

By order and in the name of the Governor of Goa.

N. N. Reddy, Chief Electrical Engineer & ex officio Additional Secretary (Power).

Panaji, 20th June, 2017.

TARIFF ORDER

Determination of Tariff for FY 2017-18

Annual Performance Review of FY 2015-16 and FY 2016-17

&

True-up of FY 2011-12 and FY 2012-13

Petition No. 228/2017

For

Electricity Department, Government of Goa

23rd May, 2017

संयुक्त विद्युत विनियामक आयोग (गोवा राज्य और संघ शासित प्रदेशोंके लिए)
JOINT ELECTRICITY REGULATORY COMMISSION
For the State of Goa and Union Territories,
2 तल, वाणिज्यनिकुंज, एचएसआईआईडीसी कार्यालय परिसर, उद्योग विहारफेज-V, गुड़गांव-122016 हरियाणा
2nd Floor, HSIIDC Office Complex, Vanijya Nikunj,
Udyog Vihar, Phase-V, Gurgaon-122 016 (Haryana)
दूरभाष: 0124-2875302 फैक्स: 0124-2342853
Phone: 0124-2875302 Fax: 0124-2342853
Website: www.jercuts.gov.in
Email: secy-jerc@nic.in

Before the
Joint Electricity Regulatory Commission
For the State of Goa and Union Territories, Gurgaon

QUORUM
Shri M.K. Goel (Chairperson)
Smt. Neerja Mathur (Member)

Petition No. 228/2017

In the matter of

Approval for the True-up of the FY 2011-12 & the FY 2012-13, Annual Performance Review for the FY 2015-16 & FY 2016-17 and Tariff determination proposal for the FY 2017-18.

And in the matter of

Electricity Department, Government of Goa (EDG) ………………………..………………. **Petitioner**

ORDER

Dated: 23rd May, 2017

a. This Order is passed in respect of the Petition filed by the Electricity Department, Government of Goa (EDG) for approval for the True-up of the FY 2011-12 & the FY 2012-13, Annual Performance Review of the FY 2015-16 & FY 2016-17 and Aggregate Revenue Requirement (ARR) and the Tariff proposal for the FY 2017-18.

b. After receiving the Petition, the Commission scrutinised its contents and requisitioned further information/clarifications on the data gaps observed in the Petition to take a prudent view of the Petition. The Commission also held a Technical Validation Session to determine its sufficiency. Further, suggestions/comments/objections were invited from the public/stakeholders. Public Hearing was held and the stakeholders/Public were heard. The schedule of activities performed in the course of this quasi-judicial process are given below:

Particulars	Details
Date of Admission	20th February, 2017
Technical Validation Session	25th April, 2017
Public Hearing	27th April, 2017

c. The approved tariff for the FY 2017-18, as detailed in the Chapter "Tariff Schedule," shall come into force from 1st April, 2017 and shall remain valid till further Orders of the Commission.

d. The licensee shall publish the revised Tariff Schedule and the salient features of tariff within one week of receipt of the Order in three daily newspapers in the respective local languages of the region, besides English, having wide circulation in their respective areas of supply.

e. Ordered as above, read with attached document giving detailed reasons, grounds and conditions.

-Sd-
नीरजा माथुर
(सदस्य)

-Sd-
एम. के. गोयल
(अध्यक्ष)

संयुक्त विद्युत विनियामक आयोग
(गोवा और केंद्र शासित प्रदेशों के लिए)

स्थान: गुडगाँव
दिनांक: 23 मई 2017

(Certified Copy)
कीर्ति तिवारी, सचिव

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List of Abbreviations

Abbreviation		**Full Form**
A&G	:	Administration and General
Act	:	The Electricity Act, 2003
ARR	:	Aggregate Revenue Requirement
BNP	:	Bharat Nirman Programme
CAGR	:	Compound Annualized Growth Rate
Capex	:	Capital Expenditure
CC	:	Current Consumption
CEA	:	Central Electricity Authority
CERC	:	Central Electricity Regulatory Commission
CGS	:	Central Generating Station
COD	:	Commercial Operation Date
Commission/JERC	:	Joint Electricity Regulatory Commission for the State of Goa and Union Territories
Ckt. Km	:	Circuit Kilometer
DDUGJY	:	Deendayal Upadhyaya Gram Jyoti Yojana
DISCOM	:	Electricity Department of Goa
CPSU	:	Central Public Sector Undertaking
EA 2003	:	The Electricity Act, 2003
FC	:	Fixed Charges
FPPCA	:	Fuel and Power Purchase Cost Adjustment
FY	:	Financial Year
GFA	:	Gross Fixed Assets
HEP	:	Hydro Electric Project
HP	:	Horse Power
HT	:	High Tension
IPDS	:	Integrated Power Development Scheme
JERC	:	Joint Electricity Regulatory Commission for the State of Goa and Union Territories
KVA	:	Kilo Volt Ampere
KWh	:	Kilo Watt Hour
LPS	:	Late Payment Surcharge
LT	:	Low Tension
MU	:	Million Unit
MW	:	Mega Watt
MYT	:	Multi Year Tariff
NDS	:	Non-Domestic Supply
NFA	:	Net Fixed Assets
O&M	:	Operation and Maintenance
PGCIL	:	Power Grid Corporation of India Ltd.
PLF	:	Plant Load Factor
PX	:	Power Exchange
R-APDRP	:	Restructured Accelerated Power Development and Reforms Programme
REC	:	Renewable Energy Certificate
RoE	:	Return on Equity
RPO	:	Renewable Purchase Obligation
R&M	:	Repair and Maintenance
SLDC	:	State Load Dispatch Centre
SBI CAPS	:	SBI Capital Market Limited

Abbreviation		Full Form
SBI PLR/SBAR	:	SBI Prime Lending Rate/State Bank Advance Rate
SCC	:	System Control Centre
T&D	:	Transmission and Distribution
UI	:	Unscheduled Interchange
VC	:	Variable Charges

Chapter 1. Introduction

1.1. About JERC

In exercise of the powers conferred by Section 83 of the Electricity Act, 2003, the Central Government constituted a two member (including Chairperson) Joint Electricity Regulatory Commission for all Union Territories except Delhi to be known as "Joint Electricity Regulatory Commission for Union Territories" with headquarters at Delhi as notified vide notification No. 23/52/2003–R&R dated 02nd May, 2005. Later, with the joining of the State of Goa, the Commission came to be known as "Joint Electricity Regulatory Commission for the State of Goa and Union Territories" as notified on 30th May, 2008. The Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Andaman & Nicobar Islands, Chandigarh, Dadra and Nagar Haveli, Daman & Diu, Lakshadweep and Puducherry) started functioning with effect from September, 2008. The office of the Commission is located in Gurgaon, Haryana.

1.2. Electricity Regulatory Process in the Electricity Department, Government of Goa

In earlier years, the Electricity Department, Government of Goa (EDG) had submitted the Tariff and Business Plan Petitions on which the Commission had subsequently issued the following Orders:

Table 1.1: Details of Tariff and related Petitions submitted by the Petitioner so far & Orders issued by JERC

Sr. No.	FY	Date of Filing	Date of Tariff Order
1	2011-12	19th October, 2011	27th June, 2012
2	2012-13	31st December, 2011	27th June, 2012
3	2013-14	31st January, 2013	31st March, 2013
4	2014-15	07th January, 2014	15th April, 2014
5	2015-16	14th January, 2015	06th April, 2015
6	Business Plan for 1st MYT Control Period	30th September, 2015/ /06th October, 2015	22nd December, 2015
7	MYT Order for 1st MYT Control Period	18th February, 2016	18th April, 2016

1.3. Filing and Admission of the Present Petition

The present Petition was filed by EDG vide letter dated 27th December, 2016 which was received at the Commission's office on 04th January, 2017. The Petition completed in all respects was admitted on 11th January, 2017 and numbered as Petition No. 228/2017.

1.4. Interaction with the Petitioner

The Order has referred at numerous places to various actions taken by the "Commission." It may be mentioned for the sake of clarity that the term "Commission," except for the hearing and Orders, denotes the Secretariat of the Commission responsible for carrying out the technical due diligence and validation of data of the Petitions filed by the Electricity Department, Government of Goa (EDG), obtaining and analysing information/clarifications received from the Electricity Department, Government of Goa (EDG), and submitting relevant issues for consideration of the Commission.

The Commission's staff interacted regularly with the Petitioner to seek clarifications and justifications on various issues essential for analysis of the Tariff Petition, and conducted a Technical Validation Session (TVS) with the Petitioner during which discrepancies in the Tariff Petition were pointed out and additional information sought by the Commission was informed. Relevant dates, including dates of correspondence and interaction with the Petitioner are as follows:

Table 1.2: List of interactions with the Petitioner

S .No.	Date	Subject
1	30th January, 2017	Data Gaps sought by the Commission
2	02nd March, 2017	Reply to Data Gaps furnished by the Petitioner
3	25th April, 2017	Technical Validation Session
4	08th May, 2017	Additional Replies to Data Gaps furnished by the Petitioner

1.5. Public Hearing process

The Commission had noted that in view of the State Assembly Elections 2017, the Model Code of Conduct was imposed in Goa on 04th January, 2017 following the announcement of the elections for 40 assembly constituencies of legislative assembly.The elections were held on 04th February, 2017, while the results were declared on 11th March, 2017.

After the end of Model Code of Conduct, the Commission initiated the proceedings and directed the Petitioner to publish a Summary of the Tariff Petition in an abridged form to ensure meaningful public participation. Public Notices were published by the Petitioner for inviting suggestions/objections from the stakeholders on the Tariff Petition as follows:

Table 1.3: Details of Public Notices published by the Petitioner

Sr. No.	Date	Name of newspaper	Place of circulation
1	28th March, 2017	Gomantak	Goa
2	28th March, 2017	Tarun Bharat	Goa
3	28th March, 2017	Times of India	Goa

The Petitioner also uploaded the Petition on its website https://www.goaelectricity.gov.in/ and invited objections and suggestions on the Petition. Interested parties/stakeholders were requested to file their suggestions/objections on the Petition to the Commission with a copy to the Petitioner on or before 27th April, 2017. Copies of the public notices published by the Petitioner are attached as **Annexure 1** to this Order. The Commission received many suggestions on the Petition, on which the department responded in writing to the stakeholders, with a copy to the Commission.

1.6. Notice for Public Hearing

The Commission also published Public Notices in the leading newspapers a stabled below, giving due intimation to the stakeholders, consumers and the public at large about the Public Hearing to be conducted by the Commission on 27th April, 2017 from 10 AM onwards at the Nalanda Hall, 5th Floor, EDC House, Atmaram Borkar Road, Panaji, Goa, 403001:

Table 1.4: Details of Public Notices published by the Commission

S. No.	Date	Name of Newspaper	Place of Circulation
1	04th April, 2017	O-HERALDO	Goa
		THE NAVHIND TIMES	
		GOMANTAK	
2	25th April, 2017	O-HERALDO	
		THE NAVHIND TIMES	
		GOMANTAK	

Copies of the Public Notices published by the Commission for intimation of the Public Hearing are attached as **Annexure 2** to this Order. This notice was uploaded on Commission's website also.

The major issues raised/indicated during the Public Hearing, along with comments/replies of the utility and views of the Commission thereon, have been summarised in Chapter 2 of this Order. The Commission has taken into consideration all the suggestions and comments raised on the Petition.

1.7. Organisation of the Order

This Order is organised into the following chapters:

- **Chapter 1:** Background and brief description of the regulatory process undertaken by the Commission.
- **Chapter 2:** Various suggestions and objections raised by the Stakeholders in writing, as well as during the Public Hearing before the Commission.
- **Chapter 3:** True-up for the FY 2011-12.
- **Chapter 4:** True-up for the FY 2012-13.
- **Chapter 5:** True-up for the FY 2013-14, FY 2014-15 and FY 2015-16
- **Chapter 6:** Annual Performance Review of the FY 2016-17
- **Chapter 7:** Approval of various Aggregate Revenue Requirement (ARR) components for the FY 2017-18.
- **Chapter 8:** Approach of the Commission on tariff principles and design.
- **Chapter 9**: Open Access Charges for the FY 2017-18.
- **Chapter 10:** Tariff schedule of the FY 2017-18 and Schedule of Services and Charges approved by the Commission
- **Chapter 11:** Directives of the Commission to Electricity Department, Government of Goa.

Chapter 2. Summary of Suggestions/Objections received, Response from the Petitioner and the Commission's Views

2.1. Regulatory Process

On admitting the Petition, the Commission directed the Petitioner to make copies of the Petition available to the public, upload the Petition on the website and also publish the same in the newspapers in an abridged form in the given format duly inviting comments/objections from the public as per the provisions of the JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009 (hereinafter referred to as the Tariff Regulations, 2009) and JERC (Multiyear Distribution Tariff) Regulations, 2014 (hereinafter referred to as the MYT Regulations, 2014) as amended from time to time.

The Public Hearing was held on 27th April, 2017 at Panaji, Goa. During the Public Hearing, some of the stakeholders who had submitted their comments in writing also presented their views in person before the Commission. Other participants from the general public, who had not submitted written objections earlier, were also given an equal opportunity to present their views/suggestions in respect of the Petition.

The list of the Stakeholders is attached as **Annexure 3** to this Order.

2.2. Suggestions/Objections, Response of the Petitioner and Commission's Comments

The Commission is appreciative of the efforts of various stakeholders in providing their suggestions/comments/observations to make the Electricity Distribution Sector responsive and efficient. The Commission has noted the concerns of all stakeholders and has tried to address them to the extent possible in the tariff design and directive chapters. The submissions of the Stakeholders, response of the Petitioner and views of the Commission are summarized below:

2.2.1. Draft Solar Policy

Stakeholder's Comment:

The draft policy was notified in 2014 and was expected to be finalized shortly. However, there is no mention of the same in the proposed Tariff Structure for the FY 2017-18.

Petitioner's Response:

The Petitioner has not submitted any response.

Commission's View:

The Commission would like to inform that presently the impact of Solar Tariff in respect of the renewable purchases is already factored in while computing the total Power Purchase Cost of the EDG. Further, the impact of tariff of various solar installations based on the Solar Policy within the State of Goa shall be considered once the Policy is finalized and notified in the Official Gazette.

2.2.2. Plugging of Leakages

Stakeholder's Comment:

Lights are on in government offices even during the daytime leading to wastage of power.

Petitioner's Response:

The Petitioner clarified verbally during the hearing that officers and staff of various government offices are being briefed regularly for conservation of electricity.

Commission's View:

The Commission notes the submission of the Petitioner and advises it to regularly issue appropriate circulars to various departments/offices to make them aware about the benefits of conservation of electricity.

2.2.3. Inadequate time for filing of comments/suggestions

Stakeholder's Comment:

There were 4 public holidays in the 11 days timeframe given for submission of comments/objections/suggestions. Thus the remaining time was inadequate and the Commission is requested to take note of this.

Petitioner's Response:

The Petitioner verbally clarified at the time of Public Hearing that the notices were issued as per the provisions of the Conduct of Business Regulations framed by JERC

Commission's View:

The Commission notes the concern of the Stakeholders. The Commission directs the Petitioner to ensure that adequate time is given to the Stakeholders to submit their comments with due consideration of intervening holidays next time onwards. Further, the Commission always follows a transparent and participative approach and hence has been accepting the comments/suggestions of the Stakeholders till the time of the hearing.

2.2.4. Regarding utilization of Electricity Duty

Stakeholder's Comment:

While the tourism industry is paying the highest rate of Electricity Duty, the department in return is not giving attention to the development of infrastructure to meet the tourism industry requirements.

Petitioner's Response:

The Petitioner has not submitted any response.

Commission's View:

The Commission would like to highlight that levy of Electricity Duty and its usage is strictly under the purview of the Government. However, various schemes for augmentation of infrastructure are underway. The stakeholder is advised to take up its specific concern related to infrastructure/services directly with the department under intimation to the Commission.

2.2.5. Financial Accounting of the Revenue

Stakeholder's Comment:

There are issues of proper accounting of the revenue as highlighted by the Petitioner.

Petitioner's Response:

The Petitioner clarified verbally at the time of the Hearing that there were issues in the billing in the FY 2015-16 which have now been addressed.

Commission's View:

The Commission has noted the submissions of the Petitioner and directs the Petitioner to make appropriate arrangements so that such issues do not occur in future.

2.2.6. Modification in applicability of clause to Hotel Industries.

Stakeholder's Comment:

The last sentence of the proposal may be deleted i.e.

The Tariff under this category will be applicable only from prospective basis i.e. from the succeeding month of receipt of certificate and no retrospective effect to be provided.

And should be replaced with the following:

The concessional tariff will be applicable for the month of receipt of certificate or the following month.

Petitioner's Response:
The Petitioner has not submitted any response.

Commission's View:
The Commission has dealt with this issue in Chapter 8. "Tariff Principles and Design".

Chapter 3. True-up for the FY 2011-12

3.1. Applicable provisions of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009

The True-up of the previous years is to be carried out as per Regulation 8 (2) of the JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 hereinreferred to as Tariff Regulations, 2009:

"(2) (i) After audited accounts of a year are made available, the Commission shall undertake similar exercise as above with reference to the final actual figures as per the audited accounts. This exercise with reference to audited accounts shall be called 'Truing Up'.

(ii) The Truing Up for any year will ordinarily not be considered after more than one year of 'Review'.

(3) The revenue gap of the ensuing year shall be adjusted as a result of review and truing up exercises.

(4) While approving such expenses/revenues to be adjusted in the future years as arising out of the Review and/or Truing up exercises, the Commission may allow the carrying costs as determined by the Commission of such expenses/revenues. Carrying costs shall be limited to the interest rate approved for working capital borrowings.

(5) For any revision in approvals, the licensee would be required to satisfy the Commission that the revision is necessary due to conditions beyond its control.

(6) In case additional supply is required to be made to any particular category, the licensee may, any time during the year make an application to the Commission for its approval. The application will demonstrate the need for such change of consumer mix and additional supply of power and also indicate the manner in which the licensee proposes to meet the cost for such change of consumer mix and additional supply of power.

(7) The Commission may consider granting approval to such proposals provided the cost of additional supply is ordinarily met by the beneficiary category."

3.2. Approach for the True-up of the FY 2011-12

While the Petitioner has submitted the True-up for the FY 2011-12 along with the audited accounts, it has been observed that the Petitioner has not submitted certain information (even in the response to data gaps sought by the Commission) that is required to undertake a proper True-up.

The Commission has adopted the following approach which is in conformity with the Tariff Regulations, 2009 for the True-up of ARR for the FY 2011-12:

1. The Commission has considered energy availability at the periphery of the Petitioner's territory and UI sale/UI purchase from Unscheduled Interchange (UI) Accounts maintained by Southern Regional Power Committee (SRPC) and Western Regional Power Committee (WRPC) in this regard.

2. The total power purchase cost of the Petitioner for the True-up period has been taken from the audited accounts of the Petitioner.

3. The Commission has adjusted the security deposit as available with the Petitioner at the end of the financial year from the Working Capital requirements of the financial year for subsequent calculation of the Interest on Working Capital.

4. In the True-up years, the Commission has considered the bad and doubtful debts actually written-off as an expense and is not allowing any provision for bad debts.

For the issues in regards to the True-up other than listed above, the Commission has adopted treatment on basis of Tariff Regulations, 2009.

The Commission had determined the ARR for the FY 2011-12 vide its Order dated 27th June, 2012.

In this Chapter, the Commission has analysed all the elements of actual revenue and expenses for the FY 2011-12 and has carried out the True-up of expenses and revenue with reference to the actual figures (final) as per the audited accounts, after a prudence check and has permitted necessary adjustments in cases where variations are for reasonable and justifiable reasons.

3.3. Energy sales

Petitioner's submission:

The actual energy sales for the FY 2011-12 were 2,880.11 MU, as against 2,746.40MU approved earlier by the Commission vide Tariff Order dated 27th June, 2012.

Commission's analysis:

The Commission, after going through the submissions of the Petitioner including the audited accounts, has considered the energy sales at 2,880.11 MU as submitted by the Petitioner for the purpose of True-up of the FY 2011-12 as shown in the following Table:

Table 3.1: Energy Sales approved by the Commission in the True-up of the FY 2011-12 (in MU)

S. No.	Particulars	FY 2011-12		
		Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
	A. LOW TENSION SUPPLY	**1,148.00**	**1,150.82**	**1,150.82**
1	(a) LTD/Domestic	696.00	751.96	751.96
	(b) LTD/L.I.G.	4.00	7.87	7.87
	(c) LTD Domestic Mixed	2.00	3.23	3.23
2	LTC/Commercial	305.00	249.14	249.14
3	(a) LTP/Motive Power	92.00	78.33	78.33
	(b) LTP Mixed (Hotel Industries)	6.00	6.10	6.10
	(c) LTP Ice Manufacturing	0.00	6.84	6.84
4	LTAG/Agriculture	10.00	14.12	14.12
5	LTPL (Public lighting)	31.00	30.50	30.50
6	LTPWW/Public Water works	2.00	2.71	2.71

1	2	3	4	5
	B. HIGH TENSION SUPPLY	**1,584.40**	**1,710.90**	**1,710.90**
7	HT (Mixed)	145.00	128.81	128.81
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	480.00	461.41	461.41
9	HTI Industrial	577.00	643.06	643.06
10	HTAG (Agriculture)	4.00	7.49	7.49
11	EHTI (Industrial)	168.70	170.52	170.52
12	HT P.W.W. & Sewage system	117.00	138.75	138.75
13	HT. M.E.'s Defense Estt.	40.00	24.73	24.73
14	HTI (Steel Rolling)	46.70	120.74	120.74
15	HTI / IT High Tech	5.00	6.23	6.23
16	HTI/Ice Manufacturing	1.00	0.40	0.40
17	Sale from EDG to GSPL (Div. VII)		8.74	8.74
18	HTI Hotel Industry			0.00
	C. TEMPORARY SUPPLY	**14.00**	**18.39**	**18.39**
19	(a) L.T. Temporary	14.00	17.93	17.93
	(b) H.T. Temporary	0.00	0.46	0.46
	Total	**2,746.40**	**2,880.11**	**2,880.11**

Therefore, the Commission approves the total sales of 2,880.11 MU in the True-up of FY 2011-12.

3.4. Power Purchase Quantum and Cost

Petitioner's submission:

An amount of Rs. 1,125.10 crore has been incurred for the procurement of 3811.77 MU of power in the FY 2011-12 as against the total power purchase cost of Rs. 1,060.47 crore approved by the Commission for the purchase of 3740.19 MU of power in the FY 2011-12 in its Order dated 27th June, 2012.

The source-wise actual power purchase quantum and cost for FY 2011-12 is summarized in Table below:

Table 3.2: Power Purchase quantum (MU) and cost (Rs. crore) submitted by the Petitioner for the True-up of the FY 2011-12

Sr. No.	Source	Purchase (MU)	Power Purchase Cost (Rs crore)				
			Fixed	Variable	Others	Suppl.	Total
1	2	3	4	5	6	7	8
A	**Central Sector Power Stations**						
I	**NTPC**	**3,207.25**	**168.02**	**350.40**	**97.58**	**19.02**	**635.02**
	KSTPS	1,524.46	61.06	109.76	37.75	(3.40)	205.17
	VSTPS - I	293.43	14.95	38.34	10.59	3.66	67.54
	VSTPS - II	108.76	7.05	13.22	4.34	0.92	25.53
	VSTPS -III	100.32	9.59	13.18	3.09	1.48	27.35
	VSTPS-IV						-
	KGPP	96.32	7.61	25.20	9.69	2.74	45.24
	GGPP						-
	SIPAT- I	31.29	3.47	2.08	0.06	0.10	5.71
	FSTPS					0.08	0.08

1	2	3	4	5	6	7	8
	KSTPS-III	33.47	5.51	2.62	0.09	(0.13)	8.09
	TSTPS					0.01	0.01
	KHSTPS-I					0.02	0.02
	RSTPS	831.01	38.21	112.44	23.47	6.06	180.18
	SIPAT- II	94.38	10.45	9.08	1.00	5.22	25.75
	Mouda						-
	JGPS	93.82	10.09	24.48	7.52	2.27	44.36
II	**RGPPL**						-
III	**NPCIL**	**213.60**		**54.74**			**54.74**
	KAPS	130.53		30.30			30.30
	TAPS	83.08		24.44			24.44
IV	**Traders**	**315.21**		**121.08**			**121.08**
	NVVN Limited	315.21		121.08			121.08
V	**OVER/ UNDER DRAWAL**	**(166.61)**		**29.64**			**29.64**
B	**Within State Generations**						
I	**CO- GENERATION**	**128.14**	**-**	**30.82**	**-**	**-**	**30.82**
	Goa Energy Private Limited	113.82		27.38			27.38
	Goa Sponge & Power Limited	14.32		3.44			3.44
C	**IPP:**						
	Reliance Infra	114.17		153.06			153.06
D	**OTHER CHARGES**	**-**	**-**	**-**	**-**	**-**	**100.74**
	PGCIL Transmission Charges, Wheeling & Other Charges						100.74
	Total	**3,811.77**	**168.02**	**739.74**	**97.58**	**19.02**	**1,125.10**

Commission's Analysis:

The Commission has verified the power purchase details as submitted by the Petitioner in its Petition with the publicly available information from the Regional Energy Accounts (REA) maintained by Western Region Power Committee (WRPC) on their website (http://www.wrpc.gov.in/) for the Central Generating Stations (CGS). Further, apart from western region, the Petitioner also gets supply from the southern region from the NTPC's Ramagundam Thermal Power Station. The Commission has validated the power purchase details pertaining to this station from the publicly available information from the Regional Energy Accounts (REA) maintained by Southern Region Power Committee (SRPC) on their website (http://www.srpc.kar.nic.in/).

The Commission observes that there is huge variation of 374.02 MU in information as submitted by the Petitioner and as available in the REA for FY 2011-12 towards the purchase from CGS (except UI).

To cross check this anomaly, the Commission sought power purchase bills from the Petitioner. However, the Petitioner responded as follows:

"ED-Goa submits that the compilation data for two years as per Format 4 is an enormous task to be carried out and will also be a time consuming process. It will be difficult to compile the data in Format 4 within such short time.

However, the actual Monthly Power Purchase summary for NTPC, NPCIL, Co-generations, NVVNL, PGCIL-WR, PGCIL-SR, KPTCL Wheeling charges for FY 2011-12 on accrual basis were provided to the Hon'ble Commission during the tariff determination process of FY 2012-13 and

FY 2013-14 vide petition No. 40/2011, 70/2012 and 99/2013. It is requested to the Hon'ble Commission to refer to the data submission made during the tariff proceeding during those years for further analysis".

The Commission further notes that in the Tariff Order dated 27th June, 2012, the Commission had considered the quantum of power purchase from NTPC and NPCIL for the FY 2011-12 based on the bills made available at that point of time by the Petitioner and provisional/final REA available in the WRPC/SRPC websites at that point of time.

The summary of the power purchase quantum from NTPC and NPCIL stations for the FY 2011-12 as approved in the Order dated 27th June, 2012, the current submission by the Petitioner and information as now available in the REA is submitted below:

FY 2011-12			
Source	Approved by the Commission in Order dated 27/06/2012	Petitioner's Submission in current Petition	Information now verified from REA
NTPC (in MU)	2,932.80	3,207.26	2,851.28
NPCIL (in MU)	195.83	213.61	195.56

The Commission would like to highlight that the Petitioner has not provided a copy of the bills matching with the audited accounts to validate its claim. As the alternate source for validation of claim of quantum of power purchase for FY 2011-12 is not made available by the Petitioner, the Commission finds it appropriate to consider the information now verified from REA for the purpose of True-up of the FY 2011-12 as it is in almost in the same range as approved in the Order dated 27th June, 2012.

Also, the Commission notes that the Petitioner has done netting off of the UI over-drawal and UI under-drawal in its submission. The Commission, as a part of the prudence check, has considered the over-drawal and under-drawal separately from the Unscheduled Interchange (UI) accounts maintained by WRPC as well as SRPC.

Further, the Commission has also verified the power purchase cost as submitted by the Petitioner with the amount reflecting in the audited accounts of the FY 2011-12. Hence the Commission approves the power purchase cost as submitted by the Petitioner.

Accordingly the Commission approves the following power purchase cost and quantum for the FY 2011-12 in the following Table:

Table 3.3: Power purchase quantum (in MU) and cost (Rs. crore) approved by the Commission in the True-up of FY 2011-12

Sr. No.	Source	Energy (MU)			Power Purchase Cost (Rs crore)				
		True Up Submission	True Up Order	Difference	Fixed	Variable	Others	Suppl.	Total
1	2	3	4	5	6	7	8	9	10
A	**Central Sector Power Stations**								
I	**NTPC**	**3,207.26**	**2,851.28**	**-355.98**	**168.02**	**350.40**	**97.58**	**19.02**	**635.02**
	KSTPS	*1,524.46*	*1,301.08*	*-223.38*	*61.06*	*109.76*	*37.75*	*-3.40*	*205.17*
	VSTPS - I	*293.43*	*252.02*	*-41.41*	*14.95*	*38.34*	*10.59*	*3.66*	*67.54*
	VSTPS - II	*108.76*	*97.31*	*-11.45*	*7.05*	*13.22*	*4.34*	*0.92*	*25.53*
	VSTPS -III	*100.32*	*92.57*	*-7.75*	*9.59*	*13.18*	*3.09*	*1.48*	*27.35*
	KGPP	*96.32*	*96.16*	*-0.16*	*7.61*	*25.20*	*9.69*	*2.74*	*45.24*
	SIPAT- I	*31.29*	*23.70*	*-7.59*	*3.47*	*2.08*	*0.06*	*0.10*	*5.71*
	FSTPS	-	-	-	-	-	-	*0.08*	*0.08*

1	2	3	4	5	6	7	8	9	10
	KSTPS-III	*33.47*	*32.86*	*-0.61*	*5.51*	*2.62*	*0.09*	*-0.13*	*8.09*
	TSTPS	-	-	-	-	-	-	*0.01*	*0.01*
	KHSTPS-I	-	-	-	-	-	-	*0.02*	*0.02*
	RSTPS	*831.01*	*768.66*	*-62.35*	*38.21*	*112.44*	*23.47*	*6.06*	*180.18*
	SIPAT- II	*94.38*	*94.14*	*-0.24*	*10.45*	*9.08*	*1.00*	*5.22*	*25.75*
	JGPS	*93.82*	*92.79*	*-1.03*	*10.09*	*24.48*	*7.52*	*2.27*	*44.36*
II	**RGPPL**	-	-	-	-	-	-	-	-
III	**NPCIL**	**213.61**	**195.56**	**-18.05**	-	**54.74**	-	-	***54.74***
	KAPS	*130.53*	*120.29*	*-10.24*	-	*30.30*	-	-	*30.30*
	TAPS	*83.08*	*75.28*	*-7.80*	-	24.44	-	-	*24.44*
IV	**Traders**	***315.21***	***315.21***	-	-	***121.08***	-	-	***121.08***
	NVVN Limited	315.21	315.21	-	-	*121.08*	-	-	*121.08*
V	**OVER/ UNDER DRAWAL**	**-166.61**	**52.11**	**218.72**	-	**29.64**	-	-	**29.64**
B	**Within State Generations**								
I	**CO-GENERATION**	**128.14**	**128.14**	-	-	**30.82**	-	-	**30.82**
	Goa Energy Private Limited	*113.82*	*113.82*	-		*27.38*			*27.38*
	Goa Sponge & Power Limited	*14.32*	*14.32*	-		*3.44*			*3.44*
C	**IPP:**								
	Reliance Infra	**114.17**	**114.17**	-	-	**153.06**	-	-	***153.06***
D	**OTHER CHARGES**								**100.74**
	PGCIL Transmission Charges, Wheeling & Other Charges								100.74
	Total	**3,811.78**	**3,656.48**	**-155.30**	**168.02**	**739.74**	**97.58**	**19.02**	**1,125.10**

The Commission observes that the Power Purchase cost of Rs. 1,125.10 crore as claimed by the Petitioner is the same as reflected in the audited accounts for the FY 2011-12.

The total power purchase quantum and cost as submitted by the Petitioner and approved by the Commission is tabulated hereunder:

Table 3.4: Summary of Power Purchase approved by the Commission in the True-up of the FY 2011-12

Particulars	Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
Power Purchase Quantum (MU)	3740.19	3811.78	3656.48
Power Purchase Cost (Rs. crore)	1060.47	1125.10	1125.10
Average Per Unit Cost (Rs./kWh)	2.84	2.95	3.08

Therefore, the Commission approves the overall power purchase quantum of 3656.48 MU at the cost of Rs. 1125.10 crore in the True-up of the FY 2011-12.

3.5. Renewable Purchase Obligations (RPOs)

As per Clause 1, Sub-clause (1) of the JERC for the State of Goa and UTs (Procurement of Renewable Energy) Regulations, 2010

"Each distribution licensee shall purchase electricity (in kWh) from renewable energy sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year."

The Commission, in its Business Plan Order dated 22nd December, 2015 issued in the Petition No. 186/2015, has reiterated that all the pending RPO's upto the FY 2015-16 must be fulfilled by the Petitioner by 31st March, 2016 and no backlog would be allowed to carried forward to the MYT Control Period from FY 2016-17 to FY 2018-19.

The Petitioner has not submitted any information towards RPO compliance in the Petition. Further, in response to data gaps, the Petitioner has submitted that the RPO backlog has been fully eliminated in the FY 2015-16. The Petitioner also provided copy of the affidavit as submitted in the Petition No. 175/2015 in this context.

Keeping in view the above, the Commission has not considered any incentive/penalty towards RPO compliance in the FY 2011-12 and shall consider the same at the time of True-up of the FY 2015-16.

3.6. Intra-State Transmission and Distribution (T&D) losses

Petitioner's Submission:

Intra State T&D Losses and Inter State Losses have been claimed at 16.21% and 4.83% respectively for the FY 2011-12 as against 13.48% and 4.31% approved by the Commission. Further, the accounting in the FY 2011-12 has witnessed a transitional change from cash to accrual method which resulted into change in energy accounting with regards to billing also. Also, Tariff Policy, 2006 allows a suitable transition framework to be provided for the licensees by SERC to reach the desired levels of service as quickly as possible. Therefore, the Commission is requested to approve the said T&D Losses due to such change in the transition period.

Commission's Analysis:

The Commission has analyzed the actual Intra-State T&D losses based on the drawal schedule as available on the WRPC and SRPC websites. The actual drawal at the periphery of Goa has been considered from the weekly UI sheets for the year as available on the WRPC and SRPC websites as shown in the Table below:

Particulars	FY 2011-12
Actual Drawal at Western Region Periphery(Source: WRPC)	2328.98
Actual Drawal at Southern Region Periphery(Source: SRPC)	609.59
Total	**2938.57**

Further, the sales allowed for the FY 2011-12 i.e. 2,880.11MU has been considered, to arrive at the actual Intra-State T&D loss of 9.46% for the utility as tabulated below:

Table 3.5: Intra-State T&D Losses approved by the Commission in the True-up of the FY 2011-12 (MU)

Particulars		Approved in Tariff Order dated 27-06-2012	Petitioner's submission (True-up)	Approved by the Commission (True-up)
1		2	3	4
Net energy drawn at State periphery (MU)	a	2,935.20	3,194.88	2,938.57
Net energy available from sources within the State (Cogen + IPP) (MU)	b	239.12	242.31	242.31

1	2	3	4	5
Total Energy available at State periphery for sale to Retail Consumers (MU)	**c=a+b**	**3,174.32**	**3,437.19**	**3,180.88**
Energy sales within the State (MU)	d	2,746.40	2,880.11	2,880.11
T&D Losses (MU)	e=c-d	427.92	557.08	300.77
T&D Losses (%)	**f=e/c**	**13.48%**	**16.21%**	**9.46%**

The Commission, therefore, considers the actual Intra-State T&D loss of 9.46%f or the True-up of the FY 2011-12.

Further, the Commission accepts the submission of the Petitioner that the accounting in the FY 2011-12 has witnessed a transitional change from cash to accrual method which resulted into change in energy accounting with regards to billing also. As the Petitioner has prepared and submitted accounts based on commercial principles for the 1st time for the FY 2011-12, the Commission has decided not to consider any incentive/penalty for the over achievement/ /under achievement of T&D Losses in the FY 2011-12 keeping in view the transition period required for such change.

3.7. Energy Balance

Petitioner Submission

The energy balance for the FY 2011-12 is tabulated below:

Table 3.6: Energy Balance for FY 2011-12 as submitted by the Petitioner (MU)

Sr. No.	Item	FY 2011-12 Audited (MU)
1	**Energy Input at Goa Periphery**	**3,195**
2	**Total Power Scheduled/ Purchased at Goa Periphery**	
	Total Schedule Billed Drawal - CGS (MU)	3,421
	Add: Overdrawal / purchase from Traders (MU)	-
	Add: Power purchase from NVVN (MU)	315
	Less: Under-drawal (MU)	167
	Less: Power diverted to Exchange (MU)	189
	Less: Banking Power (MU)	24
	Total (MU)	**3,357**
3	**PGCIL Losses - MU**	**162**
	PGCIL Losses - % *	**4.83%**
4	**Total Power Purchased within Goa State**	
	Add: Co-generation (MU)	128
	Add: Independent Power Producers (IPP) (MU)	114
	Total (MU)	**242**
5	**Total Power Purchase availability after PGCIL Losses (MU)**	**3,437**
	Less: Retail Sales to Consumers (MU)	2,880
	Distribution Losses - MUs	557
6	**Distribution Losses - %**	**16.21%**

Commission's analysis:

As detailed in previous sections, the Commission has examined the REA and weekly UI accounts for the FY 2011-12 as available in the public domain on the websites of SRPC and WRPC for validating the energy purchased by the Petitioner from the power plants/ /traders/ exchange/ banking arrangement/UI mechanism.

Accordingly, the Energy Balance as considered by the Commission for the True-up of the FY 2011-12 is shown in Table below:

Table 3.7: Energy Balance approved by the Commission for True-up of the FY 2011-12 (MU)

Particulars	Formulae	Approved in Tariff Order dated 27-06-2012	Petitioner's submission (True-up)	Approved by the Commission (True-up)
ENERGY REQUIREMENT				
Energy sales within the State (MU)	a	2,746.40	2,880.11	2,880.11
T&D Losses within the State (%)	b	13.48%	16.21%	9.46%
T&D Losses within the State (MU)	c=d-a	427.92	557.08	300.77
Total Energy required at State periphery for sale to Retail Consumers (MU)	**d=1/(1-b)**	**3,174.32**	**3,437.19**	**3,180.88**
Less: Power purchase from sources within the State (MU)	e	239.12	242.31	242.31
Total Energy required at State periphery from Sources located outside the State (MU)	**f=d-e**	**2,935.20**	**3,194.88**	**2,938.57**
Energy Transactions at Periphery				
Add: Sales in Power Exchanges (MU)	g	188.89	188.89	182.50
Add: Sales in UI (MU)	h	210.45	166.61	205.05
Add: Sales under Banking Arrangement (MU)	i	23.61	23.61	0.00
Less: Purchase under UI (MU)	j	57.23	0.00	52.11
Less: Purchase from Traders (MU)	k	315.21	315.21	315.21
Total energy scheduled at State Periphery from Tied-up Sources (MU)	**l=f+g+h +i-j-k**	**2,985.71**	**3,258.77**	**2,958.81**
Interstate Losses (%)	m	4.57%	4.74%	2.89%
Interstate Losses (MU)	n	142.92	162.09	88.04
Total requirement from Tied-up sources at generator end (MU)	**o=l+n**	**3,128.63**	**3,420.86**	**3,046.85**
Total requirement from Tied-up sources at generator end & UI/Traders/ /Banking/within State (MU)	**p=o+e+j +k**	**3,740.19**	**3,811.78**	**3,656.48**
ENERGY AVAILABILITY				
NTPC (MU)	q	2,932.80	3,207.26	2,851.28
RGPPL (MU)	r		0.00	0.00
NPCIL (MU)	s	195.83	213.61	195.56
Traders (MU)	t	315.21	315.21	315.21
OVER/UNDER DRAWAL (MU)	u	57.23	-166.61	52.11
Generation within the State (MU)	v	239.12	242.31	242.31
Total Availability from Tied-up sources at generator end & UI/Traders/Sources within State (MU)	**w=q+r+s +t+u+v**	**3,740.19**	**3,811.78**	**3,656.48**

3.8. Employee Expenses

Petitioner's Submission:

Employee expenses for the FY 2011-12 are based on the actual employee expenses incurred during the entire year.

The employee cost as approved by the Commission in the FY 2010-11 was Rs. 123.51 crore whereas the actual expenditure for the FY 2011-12 was Rs. 155.04 crore, resulting in increase of 26%. The WPI for FY 2011-12 was ~8.93% against which the escalation in the cost is **~15%.** Also, the audited employee cost for the FY 2010-11 is Rs. 149 crore which means the resultant increase on YoY basis is only ~3%. Employee cost has increased due to the impact of WPI and the accrual basis of accounting methodology adopted in the said year.

Commission's Analysis:

The Commission observes that the employee expenses approved in the past were based on the estimates prepared on cash basis and not accrual basis. The Petitioner has prepared and submitted the audited accounts prepared on commercial principles for the first time.

Accordingly, the Commission finds it appropriate to consider the actual employee costs as available in the audited accounts for the purpose of True-up of the FY 2011-12 as shown in the following Table:

Table 3.8: Employee Expenses approved by the Commission for the True-up of the FY 2011-12 (Rs. crore)

Sr. No.	Particulars	FY 2011-12		
		Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Salaries & Allowances	112.44	155.04	137.35
2	Pension Contribution and Terminal Benefits	6.44		6.55
3	Other Salary payments	7.01		11.15
	Gross Total	**125.89**	**155.04**	**155.04**

Therefore, the Commission approves actual employee expenses of Rs. 155.04 crore and for the True-up of the FY 2011-12.

3.9. Administrative and General (A&G) Expenses

Petitioner's Submission:

In the Tariff Order dated 27th June, 2012 and APR order dated 31st March, 2013, the Commission had approved the A&G expenses of Rs. 19.31 crore for the FY 2011-12.

Commission's Analysis:

The Commission observes that the A&G expenses approved in the past were based on the estimates prepared on cash basis and not accrual basis. The Petitioner has prepared and submitted the audited accounts prepared on commercial principles for the first time.

Accordingly, the Commission finds it appropriate to consider the actual A&G expenses as available in the audited accounts for the purpose of True-up of the FY 2011-12. However, the Commission would like to highlight that the Petitioner has considered an expense of Rs. 2 crore under the sub-head "Energy Conservation Expense" in the R&M Expenses in FY 2011-12. The Commission is of the view that this expense is of the nature of A&G Expense and not R&M Expenses and has accordingly considered this expense of Rs. 2 crore as part of A&G expenses for the True-up of the FY 2011-12.

The A&G Expenses as submitted by the Petitioner and approved by the Commission are shown in the Table below:

Table 3.9: A&G Expenses approved by the Commission for the True-up of the FY 2011-12 (Rs. crore)

S. No.	Particulars	FY 2011-12		
		Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Travelling Expenses	0.62	0.32	0.32
2	Office Expenses	16.44	9.91	9.91
3	Petrol, Oil, Lubricant (P.O.L)	-	0.01	0.01
4	Rent, Rates & Taxes	0.32	0.15	0.15
5	Advertisement & Publicity	0.20	0.20	0.20
6	Professional & Special Services	1.12	0.48	0.48
7	Other Charges	0.84	1.18	1.18
8	Minor Works	-	1.44	1.44
9	Audit of Accounts and Professional Fees	0.01	0.11	0.11
10	Energy Conservation Expense	-	-	2.00
11	**Total**	**19.54**	**13.80**	**15.80**
12	Less: share of others (To be specified)	-	-	-
13	**Total expenses**	**19.54**	**13.80**	**15.80**
14	Less : Capitalized	0.23	-	-
15	**Gross Total**	**19.31**	**13.80**	**15.80**

Therefore, the Commission approves actual A&G expenses of Rs. 15.80 crore for the True-up of the FY 2011-12.

3.10. Repair and Maintenance (R&M) Expenses

Petitioner's Submission:

Repairs and Maintenance activities are being undertaken as a step towards improvement of systems, reduction in breakdowns, and reduction in response time and increasing preventive maintenance. Further, the R&M expenses actually incurred for the FY 2011-12 are lower than those approved by the Commission.

Further, R&M expenses are necessary for maintenance of infrastructure and for ensuring proper Standard of Performance of the Electricity Department Goa and therefore the Commission is requested to approve Rs. 9.52 crore for the FY 2011-12 as R&M expenses.

Commission's Analysis:

The Commission observes that the R&M expenses approved in the past were based on the estimates prepared on cash basis and not accrual basis. The Petitioner has prepared and submitted the accounts prepared on commercial principles for the first time.

Accordingly, the Commission finds it appropriate to consider the actual R&M expenses as available in the audited accounts for the purpose of True-up of the FY 2011-12. However, the Commission has not considered the R&M expense of Rs. 2.00 crore towards "Energy Conservation Expense" in the FY 2011-12 as the same has been considered as part of the A&G Expenses.

The R&M expenses as submitted by the Petitioner and approved by the Commission are shown in the following Table:

Table 3.10: R&M Expenses approved by the Commission for the True-up of the FY 2011-12 (Rs. crore)

Sr. No.	Particulars	FY 2011-12		
		Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Maintenance of S/S Transformers & Distribution Lines	17.03	9.52	8.36
2	Running & Maintenance of Meters & Relay Testing Labs.			0.04
3	Running & Maintenance of Workshop			0.05
4	Repairs & Maintenance of Transformers			0.01
5	Maintenance & Repairs of Elect. Residential Building			0.99
6	Repairs & Carriages, Running & Maintenance			2.90
7	Compensation to Accidental Death of Animals due to electrocution			0.01
8	Compensation due to accidental Death of Human being due to Electrocution			0.00
9	Other R&M Expenses			-0.38
10	Change in Inventory			-4.46
	Gross Total	**17.03**	**9.52**	**7.52**

Therefore, the Commission approves actual R&M expenses of Rs. 7.52 crore for the True-up of the FY 2011-12.

3.11. Gross Fixed Assets (GFA), Capitalisation and Depreciation

Petitioner's Submission:

The opening balance of GFA for the FY 2011-12 comes to Rs. 595.50 crore as per the annual accounts. In the Tariff order dated 27th June, 2012, the Commission had not considered the opening value of Assets while approving Gross Fixed Assets as the Petitioner had not submitted a reliable Fixed Asset Register and audited accounts to support the claim in the Petition. Now, the present submission of the True-Up for the FY 2011-12 is based on the audited accounts.

Further, the prevailing infrastructure is insufficient to cater to the present load and hence to meet the increasing demand from HT and LT load, it is absolutely necessary to undertake significant capital expenditure. Accordingly, the capital expenditure of Rs. 160.41 crorewas undertaken for the FY 2011-12 and the assets worth Rs. 98.19 crore net (Rs.101.40 addition less Rs. 3.21 crore retired) were capitalized and the Commission is requested to allow the actual expenditure and capitalisation so as to ensure the creation of infrastructure for adherence to the Standards of Performance and Supply Code Regulations.

Also, as per Regulation 26 of Tariff Regulations, 2009, depreciation for the assets has been calculated annually at the rates specified by CERC from time to time on different asset categories. Further, the depreciation arrived in annual accounts for the FY 2011-12 is based on the rates specified by the Commission in its Tariff Regulations which is charged on pro-rata basis and the Commission is requested to approve the depreciation of Rs. 32.75 crore for the FY 2011-12.

Commission's Analysis:

In the Order dated 27th June, 2012, the Commission had ordered as follows:

"The Commission in its order dated 07thMay, 2012 had disallowed the opening GFA in absence of the audited accounts and Fixed Asset and Depreciation Registers and gave a directive to the Petitioner to furnish the same urgently and the same was repeated year after year.

However, the Petitioner has now furnished the audited accounts and the Fixed Asset Register (FAR) for the FY 2011-12. The Commission has also taken note of the fact that the Petitioner has prepared the FAR based on physical verification of Fixed Assets carried out by the Department. However there is discrepancy in the figure of fixed assets as reflected in the audited balance sheet and the FAR. The Commission has considered the figure of Gross Fixed Assets as reflected in the FAR as it is based on actual physical verification of assets available".

However, the Commission has now reviewed the impact of this approach across all utilities under its jurisdiction. The Commission observes that in all practical circumstances, the information as available in the Fixed Assets Register (FAR) has to be the same as that available in the audited accounts. The Commission also notes that the Petitioner has made sincere efforts for preparation of the FAR. The Commission is of the view that once the verification of all the assets is complete, the information available in the audited accounts shall tally with the information available in the FARs.

Accordingly, the Commission finds it appropriate to henceforth consider the full amount of GFA as per the audited accounts since FY 2011-12.

Accordingly, the Commission has taken the opening GFA, asset addition and closing GFA as per the audited accounts for the FY 2011-12 as shown in the following Table:

Table 3.11: GFA approved by the Commission in the True-up of FY 2011-12 (Rs crore)

Particulars	Approved in Tariff Order dated 27-06-2012	Petitioner's submission (True-up)	Approved by the Commission (True-up)
Opening GFA	**0.00**	**595.50**	**595.50**
Addition during the year	126.00	101.40	101.40
Adjustment/Retirement during the FY		3.21	3.21
Closing GFA	**126.00**	**693.69**	**693.69**

In respect of depreciation, the Commission has followed Regulation 26 of the Tariff Regulations 2009, as under:

"26. Depreciation

(1) For the purpose of tariff, depreciation shall be computed in the following manner:

(i) The value base for the purpose of depreciation shall be the historical cost of the assets, that is actual expenses limited to approved capital cost where such capital cost has been approved by the Commission:

Provided that land is not a depreciable asset and its cost shall be excluded from the capital cost while computing depreciation.

(ii) The historical cost of the asset shall include additional capitalization.

(iii) The historical cost shall include foreign currency funding converted into equivalent rupees at the exchange rate prevalent on the date when foreign currency was actually availed but not later than the date of commercial operation.

(iv) Depreciation for generation and transmission assets shall be calculated annually as per straight-line method over the useful life of the asset at the rate of depreciation specified by the Central Electricity Regulatory Commission from time to time:

Provided that the total depreciation during the life of the asset shall not exceed 90% of the original cost.

Depreciation for distribution and other assets not covered by CERC shall be as per Government of India norms of 1994 as may be revised by the Commission from time to time."

The Commission has not applied the CERC rates applicable on the average assets in place, since some of these assets have already attained the 90% limit of depreciation during the life of the asset, and accordingly has approved depreciation as per the audited accounts for the True-up of the FY 2011-12 as shown in the following Table:

Table 3.12: Asset-wise depreciation approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

Particulars	Opening GFA	Addn in GFA	Del in GFA	Closing GFA	Average Assets	Eff. Rate of depreciation	Depreciation
	(a)	(b)	(c)	(d)= a+b-c	(e)= (a+d)/2	(f)=g/e	(g)
Plant & Machinery	571.19	100.53	3.12	668.60	619.89	5.16%	31.96
Buildings	12.95	0.37	0.00	13.32	13.14	3.13%	0.41
Vehicles	2.80	0.30	0.02	3.08	2.94	8.50%	0.25
Furniture and Fixtures	1.00	0.08	0.01	1.08	1.04	5.67%	0.06
Computers & others	1.27	0.11	0.05	1.33	1.30	5.54%	0.07
Land	6.28	0.00	0.00	6.28	6.28	0.00%	0.00
Total	**595.50**	**101.40**	**3.21**	**693.69**	**644.60**		**32.75**

The depreciation amount as submitted by the Petitioner and approved by the Commission in the True-up of FY 2011-12 is shown in the Tables below:

Table 3.13: Depreciation approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

Particulars	Approved in Tariff Order dated 27-06-2012	Petitioner's submission (True-up)	Approved by the Commission As per Audited A/c (True-up)
Depreciation	**3.33**	**32.75**	**32.75**

Therefore, the Commission approves actual depreciation of Rs. 32.75 crore for True-up of the FY 2011-12.

3.12. Interest and Finance Charges

Petitioner's Submission:

Regulation 25 of the Tariff Regulations 2009, provides for Interest and Finance Charges on Loan. The majority of capital assets are created out of the equity contribution from the Government of Goa. However, the interest expenses have been claimed on the basis of normative loan calculation whereby 70% of the opening GFA and the capitalisation during the year has been considered as normative debt. Further, interest on normative loan is higher than that approved in the Order by the Commission due to the fact that opening GFA was not approved by the Commission in the absence of audited accounts, resulting in disallowance of the opening normative loan also. Other than interest on normative loan,

other Interest and Finance charges towards bank charges, LC charges, etc. have also been claimed.

The Commission is requested to approve the Interest & Finance Charges at Rs. 52.78 crore (Rs. 49.81 crore + Rs. 2.97 crore) for FY 2011-12.

Commission's Analysis:

As per Regulation 25 of the Tariff Regulations, 2009:

"1) For existing loan capital interest and finance charges on loan capital shall be computed on the outstanding loans, duly taking into account the rate of interest and schedule of repayment as per the terms and conditions of relevant agreements.

2) Interest and finance charges on loan capital for new investments shall be computed on the loans, duly taking into account the rate of interest and the schedule of repayment as per the terms and conditions of relevant agreements. The rate of interest shall, however, be restricted to the prevailing Prime Lending Rate of the State Bank of India.'' (Read SBI Advance Rate)

Further as per Regulation 23 of the said Tariff Regulations, 2009:

"23. Debt-Equity Ratio

1) For the purpose of determination of tariff, debt-equity ratio in case of existing, ongoing as well as new projects commencing after the date of notification of these Regulations shall be 70:30. Where equity employed is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30% and the balance amount shall be considered as loan. Where actual equity employed is less than 30%, the actual debt and equity shall be considered for determination of tariff:

2) Provided that the Commission may, in appropriate cases, consider equity higher than 30% for the purpose of determination of tariff, where the generating company or the licensee is able to establish to the satisfaction of the Commission that deployment of equity more than 30% is in the interest of the general public: .

3) The debt and equity amounts arrived at in accordance with sub-regulation (1) above shall be used for all purposes including for determining interest on loan, return on equity, Advance against Depreciation and Foreign Exchange Rate Variation.

4) Provided that in the case of an Integrated Utility, till the time it remains Integrated Utility, it shall be entitled to return on its capital base as per Schedule VI to the repealed Electricity (Supply) Act, 1948."

The above stated Regulations prescribe the debt-equity ratio for the assets deployed, post the commencement of the Tariff Regulations, 2009. However, for the EDG, the Commission has determined the Aggregate Revenue Requirement (ARR) for the first time for the FY 2011-12 and accordingly, the Commission finds it appropriate not to consider any loan for capitalisation prior to FY 2011-12.

Therefore, opening normative loan for FY 2011-12 is taken as NIL and the normative interest on loan has been considered only on the assets created during the year FY 2011-12 onwards as per the audited accounts.

The Commission has considered a net addition of Rs. 98.19 crore in gross fixed assets for the FY 2011-12, which are considered funded through normative debt to the tune of 70%. The Commission, for the purpose of funding of the capitalisation has considered the normative debt-equity ratio of 70:30, whereby it has considered the addition in normative loan at Rs. 68.74 crore (70% of Rs. 98.19 crores) for FY 2011-12.

The Commission has considered weighted average rate of SBI PLR for the year at 14.40% for the FY 2011-12 and the repayment of the debt has been considered at 10% the opening loan amount. Further, the Commission verified the other financing charges from the audited accounts and accordingly has approved the same for the FY 2011-12.

The calculation of the interest on the normative loan is given in the following Table:

Table 3.14: Normative interest on loan approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

Sr. No.	Particulars	Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Opening normative loan	0.00	372.08	0.00
2	Add: Normative loan during the year	88.20	59.33	68.74
3	Less: Normative repayment (10 % of 1)		37.21	0.00
4	Closing normative loan (1+2-3)	88.20	394.21	68.74
5	**Average normative loan (1+4) * 0.5**	44.10	383.14	34.37
6	Rate of interest (SBI PLR)	13.00%	13.00%	14.40%
7	**Interest on normative loan**	**5.73**	**49.81**	**4.95**
8	Financing Charges	0.69	2.97	2.97
9	**Total Interest and Finance Charges**	**6.42**	**52.78**	**7.92**

Therefore, the Commission approves interest and finance charges of Rs. 7.92 crore in the True-up for the FY 2011-12.

3.13. Interest on Security Deposit

Petitioner's Submission:

Regulation 25 of Tariff Regulations, 2009 read along with Clause 47(4) of the Electricity Act, 2003 provides for Interest on Security Deposit, if any, made by the consumer with the licensee.

An amount of Rs. 0.14 crore have been claimed as actual interest paid to the consumers on security deposits for the FY 2011-12.

Commission's Analysis:

The Commission has verified the submission from the audited accounts and observed that the Petitioner has provisioned an amount of Rs. 1.62 crore and Rs. 2.88 crore against interest on security deposit for the FY 2011-12 and FY 2012-13 respectively and the cumulative amount of Rs. 4.50 crore has been shown as current liability in the balance sheet of FY 2012-13. Further, there is no mention of Rs. 0.14 crore in the audited accounts of FY 2011-12.

The Commission has computed the interest amount due for the payment by applying the bank rate on average security deposit available as follows:

Table 3.15: Interest on Security Deposit approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

Sr. No.	Particulars	Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
1	Opening Security Deposit	0.00	76.74	76.74
2	Add: Deposits during the Year	0.00	17.65	17.65
3	Less: Deposits refunded	0.00	3.82	3.82
4	Closing Security Deposit	0.00	90.58	90.58
5	**Average Security Deposit**	**0.00**	**83.66**	**83.66**

1	2	3	4	5
6	Bank Rate	6.00%	6.00%	6.00%
7	**Interest on Security Deposit (Due)**	**0.00**	**5.02**	**5.02**
8	Interest on Security Deposit (Actually Paid)		0.14	0.00
9	**Balance to be paid to the consumers**	**0.00**	**4.88**	**5.02**

Considering the fact that there is no interest payout in actuals, the Commission has not approved any interest on security deposit in the True-up of the ARR for the FY 2011-12. The Commission directs the Petitioner to pay the balance interest on consumer security deposit of Rs. 5.02 crore in the FY 2017-18.

3.14. Return on Capital Base

Petitioner's Submission:

Being an integrated utility, EDG is entitled to return on capital base under the provisions of Schedule VI of the repealed Electricity (Supply) Act, 1948 vide provision under Regulation 23 of Tariff Regulations, 2009. EDG has calculated the return on capital base at 3%. The Commission is requested to kindly allow the return on Net Fixed Assets (NFA)amounting to Rs. 13.21 crore for the FY 2011-12.

Commission's Analysis:

Being an integrated utility, EDG is entitled to return on capital base as per Regulation 23 of the Tariff Regulations, 2009. Hence the Commission approves return on capital base on the basis of GFA and cumulative depreciation as on 01st April, 2011 as submitted by the Petitioner and as verified from the audited accounts as per the following Table:

Table 3.16: Return on Capital Base approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

Sr. No.	Particulars	Approved in Tariff Order Dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Gross block at beginning of the FY	0.00	595.50	595.50
2	Less: Opening accumulated depreciation	0.00	155.09	155.09
3	Net block at beginning of the FY (1-2)	0.00	440.41	440.41
4	Less: Opening accumulated consumer contribution	0.00	0.00	0.00
5	Net fixed assets at beginning of the FY (3-4)	0.00	440.41	440.41
6	**Return @ 3% of NFA**	**0.00**	**13.21**	**13.21**

Therefore, the Commission approves Return on Net Fixed Assets (NFA) of Rs. 13.21 crore in the True-up for the FY 2011-12.

3.15. Interest on Working Capital

Petitioner's Submission:

Interest on Working Capital has been claimed in accordance with Regulation 29 of the Tariff Regulations, 2009. Further, the closing balance of the security deposit has been deducted from the total normative Working Capital requirement for computing the Working Capital requirement as per the methodology followed by the Commission in its previous Tariff Order.

Commission's Analysis:

As per Regulation 29 of the Tariff Regulations, 2009:

"*(3) Subject to prudence check, the working capital for integrated utility shall be the sum of one month requirement for meeting:*

a. Power purchase cost

b. Employees cost

c. Administration & general expenses

d. Repair & Maintenance expenses.

e. Sum of two month requirement for meeting Fuel cost.

4) The rate of interest on working capital shall be equal to the short term Prime Lending Rate of State Bank of India on the 1st April of the relevant financial year. The interest on working capital shall be payable on normative basis notwithstanding that the generating company/licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures."

The Commission has considered the calculation of the different components of the Working Capital on the basis of the above-stipulated norms. The Commission has deducted average consumer security deposit from the Working Capital requirement considered for True-up of ARR for the FY 2011-12. The Commission has considered the SBI PLR as applicable on 01st April, 2011. (https://www.sbi.co.in/portal/web/interest-rates/benchmark-prime-lending-rate-historical-data)

The detailed calculations of the interest on the Working Capital are as mentioned in the Table below:

Table 3.17: Interest on Working Capital approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

S. No.	Particulars	Approved in Tariff Order Dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Power Purchase Cost for one month	78.50	93.76	93.76
2	Employee Cost for one month	10.49	12.92	12.92
3	A&G Expenses for one month	1.61	1.15	1.32
4	R&M Expenses for one month	1.42	0.79	0.63
5	**Total Working Capital for one month**	**92.02**	**108.62**	**108.62**
6	Security Deposit (amount with EDG)	62.57	76.74	83.66
7	**Total borrowing for Working Capital considered for one month**	**29.45**	**31.88**	**24.96**
8	SBI PLR Rate (%)	13.00%	13.00%	13.00%
9	**Interest on Working Capital**	**3.83**	**4.14**	**3.25**

Therefore, the Commission approves Rs. 3.25 crore as Interest on Working Capital in the True-up for the FY 2011-12.

3.16. Provision for Bad and Doubtful Debts

Petitioner's Submission:

The Commission has stated in the Tariff Order that bad and doubtful debts actually written off, limited to 1% as per the Regulations, would be considered only after the availability of audited accounts and would be taken up at the time of the True-up of the ARR. Accordingly, based on the audited accounts, bad and doubtful debts actually written off in the ARR amount to Rs. 2.54 crore in the FY 2011-12.

Commission's Analysis:

As specified in Regulation 28 of the Tariff Regulations, 2009 (to be read with the format):

*"The Commission may, after the generating company/licensee gets the receivables audited, allow a provision for bad debts **up to 1%** of receivables in the revenue requirement of the generating company/licensee."*

It is observed that as per the audited accounts, the licensee has actually written off bad and doubtful debts amounting to Rs. 11,930 in the FY 2011-12 which the Commission hasaccordingly considered and approved for the True-up of the FY 2011-12.

3.17. Non-Tariff Income

Petitioner's Submission:

Non-Tariff Income of Rs. 17.04 crore has been claimed in the True-up of the FY 2011-12.

Commission's Analysis:

The Commission has verified the submission of the Petitioner from the audited accounts and found the same to be correct. Hence, the total Non-Tariff Income is Rs. 17.04 crore for the FY 2011-12 as per the audited accounts, which is approved by the Commission as follows:

Table 3.18: Non-Tariff Income approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

Particulars	Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (As per audited A/c) (True-up)
Sale Proceeds of dead stock, waste paper etc	0.61	0.97	0.97
Receipt from State Electrical Inspectorate	0.45	0.29	0.29
Misc. Receipts/income	20.00	11.84	11.84
Meter/service rent	0.00	3.72	3.72
Deferred Income (Electricity Development fund)	0.00	0.23	0.23
Gross Total	**21.06**	**17.04**	**17.04**

Therefore, the Commission approves the Non-Tariff Income of Rs. 17.04 crore and or the FY 2011-12.

3.18. Revenue from Sale of Surplus Power/ Unscheduled Interchange (UI)

Petitioner's Submission:

Revenue from the sale of surplus power is Rs. 104.18 crore for FY 2011-12 against the corresponding approved amount of Rs. 118.41 crore for the FY 2011-12.

Commission's Analysis:

The Commission has analyzed the submission made by the Petitioner regarding the sale of surplus power in the Exchange plus UI sales from the audited accounts and found that the Petitioner has received the following revenue from the sale of surplus power in the Exchange and UI in the FY 2011-12:

Table 3.19: Revenue from Sale of surplus power approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

Revenue Source	Petitioner's Submission (True-up)	Approved by the Commission (As per audited A/c) (True-up)
Through sale in Power Exchange	57.70	57.70
Through sale in UI	46.48	46.48
Total Revenue from sale of Surplus Power	**104.18**	**104.18**

Therefore the Commission approves the revenue from sale of surplus power of Rs. 104.18 crore in the True-up for the FY 2011-12.

3.19. Revenue at approved Retail Tariff

Petitioner's Submission:

The revenue from Tariff was Rs. 856.35 crore for the FY 2011-12.

Commission's Analysis:

The Commission has verified revenue from the sale of power within the State in the FY 2011-12 from the audited accounts.

The category-wise revenue as submitted by the Petitioner and approved by the Commission is shown in the following Table:

Table 3.20: Revenue from Retail Sale power approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

S. No.	Particulars	FY 2011-12		
		Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
1	**A. LOW TENSION SUPPLY**	**240.50**	**260.51**	**260.51**
2	(a) LTD/Domestic	106.71	127.16	127.16
3	(b) LTD/L.I.G.	0.34	0.91	0.91
4	(c) LTD Domestic Mixed	0.37	0.93	0.93
5	LTC/Commercial	96.23	92.18	92.18
6	(a) LTP/Motive Power	26.95	23.05	23.05
7	(b) LTP Mixed (Hotel Industries)	2.10	2.91	2.91
8	(c) LTP Ice Manufacturing		2.07	2.07
9	LTAG/Agriculture	1.00	2.12	2.12
10	(a) LTPL (Public lighting)	6.20	8.34	8.34
11	(b) Arrears			0.00
12	LTPWW/Public Water works	0.60	0.84	0.84
13	**B. HIGH TENSION SUPPLY**	**563.62**	**582.92**	**582.92**
14	HT (Mixed)	60.27	50.89	50.89
15	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	155.37	136.21	136.21

1	2	3	4	5
16	HTI Industrial	214.93	235.09	235.09
17	HTAG (Agriculture)	0.50	1.38	1.38
18	EHTI (Industrial)	61.50	60.79	60.79
19	HT P.W.W. & Sewage system	39.97	53.89	53.89
20	HT. M.E.'s Defense Estt.	12.00	8.01	8.01
21	HTI (Steel Rolling)	17.12	32.06	32.06
22	HTI / IT High Tech	1.70	1.95	1.95
23	HTI/Ice Manufacturing	0.26	0.11	0.11
24	(a) Sale from EDG to GSPL (Div. VII)		2.50	2.50
25	Sale to MSEDCL (Div. VI)		0.04	0.04
26	HTI Hotel Industry			0.00
27	**C. TEMPORARY SUPPLY**	**9.80**	**12.09**	**12.09**
28	(a) L.T. Temporary	9.80	11.78	11.78
29	(b) H.T. Temporary	0.00	0.30	0.30
30	Arrears under RRC (with no. of cases)		0.83	0.83
31	FPPCA charge			0.00
	Gross Total	**813.65**	**856.35**	**856.35**

Therefore, the Commission approves the revenue from sale of power at Rs. 856.35 crore in the True-up for the FY 2011-12.

3.20. Aggregate Revenue Requirement (ARR)

Petitioner's Submission:

The Net Aggregate Revenue Requirement as approved by the Commission in the Review of the ARR for the FY 2011-12 was Rs. 1,096.80 crore. Based on the True-up submissions for the FY 2011-12, the Commission is requested to approve an ARR of Rs. 1,287.81 crore.

Commission's Analysis:

The Commission on the basis of the detailed analysis of the cost parameters of the ARR has considered and approved the revenue requirement in the True up of the FY 2011-12 at Rs. 1,239.37 crore as given in the following Table:

Table 3.21: Net ARR approved by the Commission in the True-up of FY 2011-12 (Rs. crore)

Sr. No.	Particulars	FY 2011-12		
		Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
1	Cost of power purchase for full year	1,060.47	1,125.10	1,125.10
2	Employee costs	125.89	155.04	155.04
3	Administration and General Expenses	19.31	13.80	15.80
4	Repair and Maintenance Expenses	17.03	9.52	7.52
5	Depreciation	3.33	32.75	32.75
6	Interest and Finance charges	6.42	52.78	7.92
7	Interest on Working Capital	3.83	4.14	3.25
8	Interest on Security Deposit	-	0.14	-
9	Return on NFA	-	13.21	13.21
10	Provision for Bad Debt	-	2.54	0.00
11	Other Expenses	-	-	-
12	**Total Revenue Requirement**	**1,236.28**	**1,409.03**	**1,360.59**
13	Less: Non-Tariff Income	21.06	17.04	17.04

1	2	3	4	5
14	Less: Revenue from Surplus Power Sale/UI	118.41	104.18	104.18
15	**Net Revenue Requirement**	**1,096.80**	**1,287.81**	**1,239.37**

3.21. Revenue Gap/(Surplus)

Petitioner's Submission:

Along with the 'Tariff Proposal for the FY 2012-13' submitted vide affidavit dated 05thApril, 2012, it was submitted that the entire revenue gap for FY 2011-12 as per the revised estimates is to be met through budgetary support and there is no revenue gap of FY 2011-12 to be carried forward in FY 2012-13.

A letter from the Government of Goa (addressed to EDG and signed by the Under Secretary Finance, Budget Department, Government of Goa) for budgetary support for FY 2011-12 dated 05th April, 2012, the main contents of which are reproduced below:

"I am directed to state that the Government of Goa has decided to continue with the existing electricity tariff for the consumers in the state during the Financial Year 2011-12, and had provided the requisite budgetary support to meet the deficit, and hence has decided not to carry forward the deficit as may be approved by the Hon'ble Commission during the process of finalizing the ARR for FY 2011-12 to the next financial year 2012-13."

Accordingly, the revenue gap of Rs. 431.46 crore for FY 2011-12, has not been carried forward and will be met through the budgetary support as proposed in the earlier submission.

Commission's Analysis:

The Commission has analyzed and approved the Revenue Gap/(Surplus) as follows:

Table 3.22: Revenue Gap/(Surplus) approved by the Commission in the True-up of the FY 2011-12 (Rs. crore)

Sr. No.	Particulars	FY 2011-12		
		Approved in Tariff Order dated 27-06-2012	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Net Revenue Requirement	1,096.80	1,287.81	1,239.37
2	Revenue from Retail Sales at Existing Tariff	813.65	856.35	856.35
3	**Net Gap/(Surplus)**	**283.15**	**431.46**	**383.02**
4	Budgetary Support from Government	283.15	431.46	383.02
5	**Net Final Revenue Gap/(Surplus)**	-	-	-

The Petitioner has submitted that the entire gap for the FY 2011-12 is committed to be funded by the Government of Goa by way of budgetary support. The petitioner in this regard has also submitted the letter from Government of Goa wherein the Government of Goa has assured to provide requisite budgetary support to meet the deficit at the existing tariff for the FY 2011-12. **In view of the budgetary support for the FY 2011-12 from the Government of Goa, the Commission approves Nil net revenue gap in the True-up for the FY 2011-12.**

Chapter 4. True-up for the FY 2012-13

4.1. Applicable provisions of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009

The True-up of the FY 2012-13 is to be carried out as per Regulation 8(2) of the Tariff Regulations, 2009:

(2) (i) After audited accounts of a year are made available, the Commission shall undertake similar exercise as above with reference to the final actual figures as per the audited accounts. This exercise with reference to audited accounts shall be called 'Truing Up'.

(ii) The Truing Up for any year will ordinarily not be considered after more than one year of 'Review'.

(3) The revenue gap of the ensuing year shall be adjusted as a result of review and truing up exercises.

(4) While approving such expenses/revenues to be adjusted in the future years as arising out of the Review and/or Truing up exercises, the Commission may allow the carrying costs as determined by the Commission of such expenses/revenues. Carrying costs shall be limited to the interest rate approved for working capital borrowings.

(5) For any revision in approvals, the licensee would be required to satisfy the Commission that the revision is necessary due to conditions beyond its control.

(6) In case additional supply is required to be made to any particular category, the licensee may, any time during the year make an application to the Commission for its approval. The application will demonstrate the need for such change of consumer mix and additional supply of power and also indicate the manner in which the licensee proposes to meet the cost for such change of consumer mix and additional supply of power.

(7) The Commission may consider granting approval to such proposals provided the cost of additional supply is ordinarily met by the beneficiary category."

4.2. Approach for the True-up of the FY 2012-13

While the Petitioner has submitted the True-up for the FY 2012-13 along with the audited accounts, it has been observed that the Petitioner has not submitted certain information (even in the response to data gaps sought by the Commission) that is required to undertake a proper True-up.

The Commission has adopted the following approach which is in conformity with the Tariff Regulations, 2009 for True-up of ARR for the FY 2012-13:

1. The Commission has considered energy availability at the periphery of the Petitioner's territory and UI sale/UI purchase from Unscheduled Interchange (UI) Accounts maintained by Southern Regional Power Committee (SRPC) and Western Regional Power Committee (WRPC) in this regard.
2. The total power purchase cost of the Petitioner for the True-up period has been taken from the audited accounts of the Petitioner.
3. The Commission has adjusted the security deposit as available with the Petitioner at the end of the financial year from the Working Capital requirements of the financial year for subsequent calculation of the Interest on Working Capital.
4. In the True-up years, the Commission has considered the bad and doubtful debts actually written-off as an expense and not allowing any provision for bad debts.

For the issues in regards to the True-up other than listed above, the Commission has adopted treatment on basis of Tariff Regulations, 2009.

The Commission had determined the ARR for the FY 2012-13 vide its Order dated 27th June, 2012 and subsequently carried out the Review of the FY 2012-13 in its Order dated 31st March, 2013.

In this Chapter, the Commission has analysed all the elements of actual revenue and expenses for the FY 2012-13 and has carried out the True up of expenses and revenue with reference to the actual figures (final) as per the audited accounts, after a prudence check and has permitted necessary adjustments in cases where variations are for reasonable and justifiable reasons.

4.3 Energy Sales

Petitioner's Submission:

The actual energy sales for the FY 2012-13 were 2,925.24MU, as against 2,885.98MU approved earlier by the Commission vide Tariff Order dated 31st March, 2013.

Commission's Analysis:

The Commission, after going through the submissions of the Petitioner including the audited accounts, has considered the energy sales at 2,925.24 MU as submitted by the Petitioner for the purpose of True-up of the FY 2012-13 as shown in the following Table:

Table 4.1: Energy Sales approved by the Commission in the True-up of the FY 2012-13 (in MU)

Sr. No.	Particulars	FY 2012-13		
		Approved in APR Order dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
	A. LOW TENSION SUPPLY	**1,172.98**	**1,195.89**	**1,195.89**
1	(a) LTD/Domestic	828.49	797.35	797.35
	(b) LTD/L.I.G.	2.00	7.48	7.48
	(c) LTD Domestic Mixed	5.00	4.37	4.37
2	LTC/Commercial	216.49	250.71	250.71
3	(a) LTP/Motive Power	83.00	75.32	75.32
	(b) LTP Mixed (Hotel Industries)	5.00	5.50	5.50
	(c) LTP Ice Manufacturing	0.00	7.03	7.03
4	LTAG/Agriculture	16.00	12.89	12.89
5	LTPL (Public lighting)	15.00	32.92	32.92
6	LTPWW/Public Water works	2.00	2.31	2.31
	B. HIGH TENSION SUPPLY	**1,698.00**	**1,708.96**	**1,708.96**
7	HT (Mixed)	281.00	114.79	114.79
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	490.00	525.68	525.68
9	HTI Industrial	596.00	640.38	640.38
10	HTAG (Agriculture)	5.00	6.35	6.35
11	EHTI (Industrial)	139.00	132.24	132.24
12	HT P.W.W. & Sewage system	99.00	139.78	139.78
13	HT. M.E.'s Defense Estt.	34.00	25.49	25.49
14	HTI (Steel Rolling)	47.00	63.72	63.72
15	HTI / IT High Tech	7.00	40.55	40.55
16	HTI/Ice Manufacturing	0.00	0.49	0.49

1	2	3	4	5
17	Sale from EDG to GSPL (Div. VII)	0.00	5.39	5.39
18	HTI Hotel Industry		14.11	14.11
	C. TEMPORARY SUPPLY	15.00	20.39	20.39
19	(a) L.T. Temporary	14.00	19.65	19.65
	(b) H.T. Temporary	1.00	0.74	0.74
	Total	2,885.98	2,925.24	2,925.24

Therefore, the Commission approves the total sales of 2,925.24 MU in the True-up of the FY 2012-13.

4.4. Power Purchase Quantum and Cost

Petitioner's Submission:

An amount of Rs. 1,045.22 crore has been incurred for the procurement of 3,576.54 MU of power in the FY 2012-13 as against the total power purchase cost of Rs. 866.01 crore approved by the Commission for the purchase of 3547.79MU of power for the FY 2012-13 in its Order dated 31st March, 2013.

The source-wise actual power purchase quantum and cost for FY 2012-13 is summarized in the following Table:

Table 4.2: Power Purchase quantum (MU) and cost (Rs. crore) submitted by the Petitioner for the True-up of the FY 2012-13

Sr. No.	Source	Purchase (MU)	Power Purchase Cost (Rs. crore)				
			Fixed	Variable	Others	Suppl.	Total
1	2	3	4	5	6	7	8
A	**Central Sector Power Stations**						
I	**NTPC**	**3,111.43**	**218.60**	**382.41**	**1.73**	**48.03**	**650.77**
	KSTPS	1,562.75	*87.85*	*143.96*	*0.94*	*32.54*	*265.30*
	VSTPS - I	242.75	*17.02*	*30.99*	*0.37*	*8.03*	*56.42*
	VSTPS - II	99.61	*7.70*	*11.62*	*0.15*	*2.76*	*22.22*
	VSTPS -III	89.54	*9.75*	*10.48*	*0.14*	*2.46*	*22.84*
	VSTPS-IV	1.11	0.41	0.11	-	-0.20	*0.32*
	KGPP	56.54	*8.44*	*13.82*	-	*-0.45*	*21.82*
	GGPP	67.29	*10.92*	*15.72*	-	*-0.09*	*26.55*
	SIPAT- I	116.73	*16.65*	*15.41*	*0.04*	*0.98*	*33.08*
	FSTPS	-	-	-	-	*0.05*	*0.05*
	KSTPS-III	42.29	*6.14*	*3.87*	*0.03*	*0.31*	*10.34*
	TSTPS	-	-	-	-	-	-
	KHSTPS-I	-	-	-	-	-	-
	RSTPS	758.93	*43.45*	*127.50*	-	*11.20*	*182.14*
	SIPAT- II	73.78	*10.00*	*8.91*	*0.06*	*0.29*	*19.25*
	Mouda	0.10	*0.26*	*0.03*	-	*-0.24*	*0.05*
	Add/ Less: Other Adjustments		-	-	-	*-9.60*	*-9.60*
II	**RGPPL**	**41.78**		**23.45**			***23.45***
III	**NPCIL**	**197.43**	**-**	**50.23**	**-**	**-**	**50.23**
	KAPS	109.79		*25.58*			*25.58*
	TAPS	87.64		24.65			*24.65*
IV	**Traders**	**20.82**	**-**	***8.28***	**-**	**-**	***8.28***
	NVVN Limited	20.82		*8.28*			*8.28*
V	**OVER/ UNDER DRAWAL**	**19.45**		**38.31**			**38.31**

1	2	3	4	5	6	7	8
B	**Within State Generations**						
I	**CO- GENERATION**	**71.80**	**-**	**17.09**	**-**	**-**	**17.09**
	Goa Energy Private Limited	61.64		*14.65*			*14.65*
	Goa Sponge & Power Limited	10.17		*2.44*			*2.44*
C	**IPP:**						
	Reliance Infra	113.83	21.51	135.83			157.34
D	**OTHER CHARGES**						**99.75**
	PGCIL Transmission Charges, Wheeling & Other Charges						99.75
	Total	**3,576.54**	**240.11**	**655.60**	**1.73**	**48.03**	**1,045.22**

Commission's Analysis:

The Commission has verified the power purchase details as submitted by the Petitioner in its Petition with the publicly available information from the Regional Energy Accounts (REA) maintained by Western Region Power Committee (WRPC) on their website (http://www.wrpc.gov.in/) for the Central Generating Stations (CGS). Further, apart from western region, the Petitioner also gets supply from the southern region from the NTPC's Ramagundam Thermal Power Station. The Commission has validated the power purchase details pertaining to this station from the publicly available information from the Regional Energy Accounts (REA) maintained by Southern Region Power Committee (SRPC) on their website (http://www.srpc.kar.nic.in/).

The Commission observes that there is a minor difference of 0.28 MU in the energy quantum as submitted by the Petitioner and as available in REA for the FY 2012-13 for the purchase from CGS (except UI).

Also, the Commission notes that the Petitioner has done netting off of the UI over-drawal and UI under-drawal in its submission. The Commission, as a part of the prudence check, has considered the over-drawal and under-drawal separately from the Unscheduled Interchange (UI) accounts maintained by WRPC as well as SRPC.

Further, the Commission has also verified the power purchase cost as submitted by the Petitioner with the amount reflecting in the audited accounts of the FY 2012-13. Hence the Commission approves the power purchase cost as submitted by the Petitioner.

Accordingly the Commission approves the following power purchase cost and quantum for the FY 2012-13 in the Table given below:

Table 4.3: Power purchase quantum (in MU) approved by the Commission in the True-up of FY 2012-13

Sr. No.	Source	Energy (MU)			Power Purchase Cost (Rs. crore)				
		True Up Submission	True Up Order	Difference	Fixed	Variable	Others	Suppl.	Total
1	2	3	4	5	6	7	8	9	10
A	**Central Sector Power Stations**								
I	**NTPC**	**3,111.43**	**3,111.43**	**0.00**	**218.60**	**382.41**	**1.73**	**48.03**	**650.77**
	KSTPS	*1,562.75*	*1,562.75*	-	*87.85*	*143.96*	*0.94*	*32.54*	*265.30*
	VSTPS - I	*242.75*	*242.75*	*0.00*	*17.02*	*30.99*	*0.37*	*8.03*	*56.42*
	VSTPS - II	*99.61*	*99.61*	-	*7.70*	*11.62*	*0.15*	*2.76*	*22.22*
	VSTPS -III	*89.54*	*89.54*	-	*9.75*	*10.48*	*0.14*	*2.46*	*22.84*
	VSTPS-IV	1.11	1.11	-	0.41	0.11	-	-0.20	*0.32*

1	2	3	4	5	6	7	8	9	10
	KGPP	*56.54*	*56.54*	*0.00*	*8.44*	*13.82*	-	*-0.45*	*21.82*
	GGPP	*67.29*	*67.29*	-	*10.92*	*15.72*	-	*-0.09*	*26.55*
	SIPAT- I	*116.73*	*116.73*	-	*16.65*	*15.41*	*0.04*	*0.98*	*33.08*
	FSTPS	-			-	-	-	*0.05*	*0.05*
	KSTPS-III	*42.29*	*42.29*	-	*6.14*	*3.87*	*0.03*	*0.31*	*10.34*
	TSTPS	-			-	-	-	-	-
	KHSTPS-I	-			-	-	-	-	-
	RSTPS	*758.93*	*758.93*	-	*43.45*	*127.50*	-	*11.20*	*182.14*
	SIPAT- II	*73.78*	*73.78*	-	*10.00*	*8.91*	*0.06*	*0.29*	*19.25*
	Mouda	*0.10*	*0.10*	-	*0.26*	*0.03*	-	*-0.24*	*0.05*
	Add/ Less: Other Adjustments			-	-	-	-	*-9.60*	*-9.60*
II	**RGPPL**	**41.78**	**41.84**	**0.06**		**23.45**			***23.45***
III	**NPCIL**	**197.43**	**197.09**	**-0.34**	**-**	**50.23**	**-**	**-**	**50.23**
	KAPS	*109.79*	*109.45*	*-0.34*		*25.58*			*25.58*
	TAPS	*87.64*	*87.64*	-		24.65			24.65
IV	**Traders**	***20.82***	***20.82***	**-**	**-**	***8.28***	**-**	**-**	***8.28***
	NVVN Limited	20.82	20.82	-		*8.28*			*8.28*
V	**OVER/ /UNDER DRAWAL**	**19.45**	**101.29**	**81.84**		**38.31**			**38.31**
B	**Within State Generations**								
I	**CO-GENERATION**	**71.80**	**71.80**	**-**	**-**	**17.09**	**-**	**-**	**17.09**
	Goa Energy Private Limited	*61.64*	*61.64*	-		*14.65*			*14.65*
	Goa Sponge & Power Limited	*10.17*	*10.17*	-		*2.44*			*2.44*
C	**IPP:**								
	Reliance Infra	**113.83**	**113.83**	**-**	**21.51**	**135.83**			**157.34**
D	**OTHER CHARGES**								**99.75**
	PGCIL Transmission Charges, Wheeling & Other Charges								99.75
	Total	**3,576.54**	**3,658.10**	**81.57**	**240.11**	**655.60**	**1.73**	**48.03**	**1,045.22**

The Commission observes that the Power Purchase cost of Rs. 1,045.22 crore as claimed by the Petitioner is the same as reflected in the audited accounts for the FY 2012-13.

The total power purchase quantum and cost as submitted by the Petitioner and approved by the Commission is tabulated hereunder:

Table 4.4: Summary of Power Purchase approved by the Commission in the True-up of the FY 2012-13

Particulars	Approved in APR Order dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
Power Purchase Quantum (MU)	3547.79	3,576.54	3,658.10
Power Purchase Cost (Rs. crore)	866.01	1,045.22	1,045.22
Average Per Unit Cost (Rs./kWh)	2.44	2.92	2.86

Therefore, the Commission approves the overall power purchase quantum of 3,658.10 MU at the cost of Rs. 1,045.22 crore in the True-up of the FY 2012-13.

4.5. Renewable Purchase Obligations (RPOs)

As per Clause 1, sub-clause (1) of the JERC for the State of Goa and UTs (Procurement of Renewable Energy) Regulations, 2010

"Each distribution licensee shall purchase electricity (in kWh) from renewable energy sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year."

The Commission, in its Business Plan Order dated 22nd December, 2015 issued in the Petition No. 186/2015, has reiterated that all the pending RPO's upto the FY 2015-16 must be fulfilled by the Petitioner by 31st March, 2016 and no backlog would be allowed to carried forward to the MYT Control Period from FY 2016-17 to FY 2018-19.

The Petitioner has not submitted any information towards RPO compliance in the Petition. Further, in response to data gaps, the Petitioner has submitted that the RPO backlog has been fully eliminated in the FY 2015-16. The Petitioner also provided copy of the affidavit as submitted in the Petition No. 175/2015 in this context.

Keeping in view the above, the Commission has not considered any incentive/penalty towards RPO compliance in the FY 2012-13 and shall consider the same at the time of True-up of the FY 2015-16.

4.6. Intra-State Transmission and Distribution (T&D) losses

Petitioner's Submission:

For the FY 2012-13, the Intra State T&D Loss and Inter State Loss is 13.58% and 4.57% respectively. The power scheduled from the Southern Region originates from Ramagundam periphery, which is located in Andhra Pradesh. Hence, the power which shall be made available at Goa periphery is subjected to substantial amount of losses viz Intra State Loss of Andhra Pradesh, Inter State Losses of SR & WR. Further, there was a Grid Diversion for a period of 6 months due to KEB Ckts breakdown and PP outages; hence there was an additional loss in the energy available at the Goa Periphery in the first half of FY 2012-13 resulting in higher inter State loss.

Commission's Analysis:

The Commission has analyzed the actual T&D losses based on the drawal schedule as available on the WRPC and SRPC websites. The actual drawal at the periphery of Goa has been considered from the weekly UI sheets for the year as available on the WRPC and SRPC websites as shown in the following Table:

Particulars	FY 2012-13
Actual Drawal at Western Region periphery (WRPC)	2569.51
Actual Drawal at Southern Region periphery (SRPC)	613.11
Total	**3182.62**

Further, the sales allowed for the FY 2012-13 i.e. 2,925.24 MU respectively has been considered, to arrive at the actual Intra-State T&D loss of 13.15% for the utility as tabulated below:

Table 4.5: Intra-State T&D Losses approved by the Commission in the True-up of the FY 2012-13 (MU)

Particulars		Approved in APR Order dated 31-03-2013	Petitioner's submission (True-up)	Approved by the Commission (True-up)
Net energy drawn at State periphery (MU)	a	3,141.56	3,199.16	3,182.62
Net energy available from sources within the State (Cogen + IPP) (MU)	b	156.05	185.63	185.63
Total Energy available at State periphery for sale to Retail Consumers (MU)	**c=a+b**	**3,297.61**	**3,384.80**	**3,368.25**
Energy sales within the State (MU)	d	2,885.98	2,925.24	2,925.24
T&D Losses (MU)	e=c-d	411.63	459.55	443.01
T&D Losses (%)	**f=e/c**	**12.48%**	**13.58%**	**13.15%**

The Commission, therefore, considers the actual T&D loss of 13.15% for the True-up of the FY 2012-13 respectively.

Further, the Commission accepts the submission of the Petitioner that the accounting in the FY 2011-12 has witnessed a transitional change from cash to accrual method which resulted into change in energy accounting with regards to billing also. As the Petitioner has prepared and submitted accounts based on commercial principles for the 1st time for the FY 2012-13, the Commission has decided not to consider any incentive/penalty for the overachievement/underachievement of T&D Losses in the FY 2012-13 keeping in view the transition period required for such change.

4.7. Energy Balance

Petitioner Submission

The energy balance for the FY 2012-13 is tabulated below:

Table 4.6: Energy Balance for FY 2012-13 as submitted by the Petitioner (MU)

Sr. No.	Item	FY 2012-13 Audited (MU)
1	2	3
1	**Energy Input at Goa Periphery**	**3,199**
2	**Total Power Scheduled/ Purchased at Goa Periphery**	**-**
	Total Schedule Billed Drawal - CGS (MU)	3,351
	Add: Overdrawal / purchase from Traders (MU)	114
	Add: Power purchase from NVVN (MU)	21
	Less: Under-drawal (MU)	94
	Less: Power diverted to Exchange (MU)	39
	Less: Banking Power (MU)	-
	Total (MU)	**3,352**
3	**PGCIL Losses - MU**	**153**
	PGCIL Losses - % *	**4.57%**
4	**Total Power Purchased within Goa State**	**-**
	Add: Co-generation (MU)	72

1	2	3
	Add: Independent Power Producers (IPP) (MU)	114
	Total (MU)	**186**
5	**Total Power Purchase availability after PGCIL Losses (MU)**	**3,385**
	Less: Retail Sales to Consumers (MU)	2,925
	Distribution Losses - MUs	460
6	**Distribution Losses - %**	**13.58%**

Commission's Analysis:

As detailed in previous sections, the Commission has examined the REA and weekly UI accounts for the FY 2012-13 as available in the public domain on the websites of SRPC and WRPC for validating the energy purchased by the Petitioner from the power plants/ /traders/ exchange/ banking arrangement/UI mechanism.

Accordingly, the Energy Balance as considered by the Commission for the True-up of the FY 2012-13 is shown in Table below:

Table 4.7: Energy Balance approved by the Commission for True-up of the FY 2012-13 (MU)

Particulars	Formulae	Approved in Tariff Order Dated 31-03-2013	Petitioner's submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
ENERGY REQUIREMENT				
Energy sales within the State (MU)	a	2,885.98	2,925.24	2,925.24
T&D Losses within the State (%)	b	12.48%	13.58%	13.15%
T&D Losses within the State (MU)	c=d-a	411.63	459.55	443.01
Total Energy required at State periphery for sale to Retail Consumers (MU)	**d=1/(1-b)**	**3,297.61**	**3,384.80**	**3,368.25**
Less: Power purchase from sources within the State (MU)	e	156.05	185.63	185.63
Total Energy required at State periphery from Sources located outside the State (MU)	**f=d-e**	**3,141.56**	**3,199.16**	**3,182.62**
Energy Transactions at Periphery				
Add: Sales in Power Exchanges (MU)	g	19.57	38.71	30.64
Add: Sales in UI (MU)	h	-	-	114.73
Add: Sales under Banking Arrangement (MU)	i	-	-	-
Less: Purchase under UI (MU)	j	60.09	19.45	101.29
Less: Purchase from Traders (MU)	k	20.82	20.82	20.82
Total energy scheduled at State Periphery from Tied-up Sources (MU)	**l=f+g+h +i-j-k**	**3,080.22**	**3,197.60**	**3,205.88**
Interstate Losses (%)	m	6.97%	4.57%	4.31%
Interstate Losses (MU)	n	230.61	153.03	144.48
Total requirement from Tied-up sources at generator end (MU)	**o=l+n**	**3,310.83**	**3,350.64**	**3,350.36**
Total requirement from Tied-up sources at generator end & UI/Traders/Banking/Within State (MU)	**p=o+e+j +k**	**3,547.79**	**3,576.54**	**3,658.10**

1	2	3	4	5
ENERGY AVAILABILITY				
NTPC (MU)	q	3,114.23	3,111.43	3,111.43
RGPPL (MU)	r		41.78	41.84
NPCIL (MU)	s	196.60	197.43	197.09
Traders (MU)	t	20.82	20.82	20.82
OVER/ UNDER DRAWAL (MU)	u	60.09	19.45	101.29
Generation within the State (MU)	v	156.05	185.63	185.63
Total Availability from Tied-up sources at generator end & UI/Traders/Sources within State (MU)	**w=q+r+ s+t+u+v**	**3,547.79**	**3,576.54**	**3,658.10**

4.8. Employee Expenses

Petitioner's Submission:

Employee expenses for the FY 2012-13 are based on the actual employee expenses incurred during the entire year.
However, the employee cost in FY 2012-13 has decreased marginally as compared to FY 2011-12.

Commission's Analysis:

The Commission observes that the employee expenses approved in the past were based on the estimates prepared on cash basis and not accrual basis. The Petitioner has prepared and submitted the audited accounts prepared on commercial principles for the first time.

Accordingly, the Commission finds it appropriate to consider the actual employee costs as available in the audited accounts for the purpose of True-up of the FY 2012-13 as shown in the Table below:

Table 4.8: Employee Expenses approved by the Commission for the True-up of the FY 2012-13 (Rs. crore)

S. No.	Particulars	FY 2012-13		
		Approved in APR Order dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Salaries& Allowances	122.49	154.63	148.37
2	Pension Contribution and Terminal Benefits	7.02		6.11
3	Other Salary payments	6.94		0.15
	Gross Total	**136.44**	**154.63**	**154.63**

Therefore, the Commission approves actual employee expenses of Rs. 154.63 crore for the True-up of the FY 2012-13.

4.9. Administrative and General (A&G) Expenses

Petitioner's Submission:

In the APR order dated 31st March, 2013, the Commission had approved the A&G expenses of Rs. 8.59 crore for the FY 2012-13.

Commission's Analysis:

The Commission observes that the A&G expenses approved in the past were based on the estimates prepared on cash basis and not accrual basis. The Petitioner has prepared and submitted the audited accounts prepared on commercial principles for the first time.

Accordingly, the Commission finds it appropriate to consider the actual A&G expenses as available in the audited accounts for the purpose of True-up of the FY 2012-13 as shown in the Table below:

Table 4.9: Employee Expenses approved by the Commission for the True-up of FY 2012-13 (Rs. crore)

S. No.	Particulars	FY 2012-13		
		Approved in APR Order dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Travelling Expenses	8.59	0.37	0.37
2	Office Expenses		17.98	17.98
3	Petrol, Oil, Lubricant (P.O.L)		0.01	0.01
4	Rent, Rates & Taxes		0.22	0.22
5	Advertisement & Publicity		0.24	0.24
6	Professional & Special Services		0.44	0.44
7	Other Charges		1.14	1.14
8	Minor Works		1.77	1.77
9	Audit of Accounts and Professional Fees		0.11	0.11
10	**Total**	**8.59**	**22.27**	**22.27**
11	Less : share of others (To be specified)			
12	**Total expenses**	**8.59**	**22.27**	**22.27**
13	Less : Capitalized			
14	**Gross Total**	**8.59**	**22.27**	**22.27**

Therefore, the Commission approves actual A&G expenses of Rs. 22.27 crore for the True-up of the FY 2012-13.

4.10. Repair and Maintenance (R&M) Expenses

Petitioner's Submission:

Repairs and Maintenance activities are being undertaken as a step towards improvement of systems, reduction in breakdowns, reduction in response time and increasing preventive maintenance.

For the FY 2012-13, R&M expenses have increased by 3% as compared to the cost approved by the Commission. Since in the FY 2011-12, R&M expenses were remarkably low, accordingly there couldn't be a comparison of the actual R&M expenses of the FY 2012-13 with the FY 2011-12 in the context of year on year increase in cost.

Further, R&M expenses are necessary for maintenance of infrastructure and for ensuring proper Standards of Performance of the Electricity Department Goa and therefore the Commission is requested to approve Rs. 19.16 crore for the FY 2012-13 as R&M expenses.

Commission's Analysis:

The Commission observes that the R&M expenses approved in the past were based on the estimates prepared on cash basis and not accrual basis. The Petitioner has prepared and submitted the accounts prepared on commercial principles for the first time.

Accordingly, the Commission finds it appropriate to consider the actual R&M expenses as available in the audited accounts for the purpose of True-up of the FY 2012-13 as shown in the following Table:

Table 4.10: R&M Expenses approved by the Commission for the True-up of the FY 2012-13 (Rs. crore)

Sr. No.	Particulars	FY 2012-13		
		Approved in APR Order Dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Maintenance of S/S Transformers & Distribution Lines	18.55	19.16	14.97
2	Running & Maintenance of Meters & Relay Testing Labs			0.01
3	Running & Maintenance of Workshop			0.03
4	Repairs & Maintenance of Transformers			0.03
5	Maintenance & Repairs of Elect. Residential Building			0.81
6	Repairs & Carriages, Running & Maintenance			3.08
7	Compensation to Accidental Death of Animals due to electrocution			0.01
8	Compensation due to accidental Death of Human being due to Electrocution			0.15
9	Other R&M Expenses			1.05
10	Change in Inventory			-0.98
	Gross Total	**18.55**	**19.16**	**19.16**

Therefore, the Commission approves actual R&M expenses of Rs. 19.16 crore for the True-up of the FY 2012-13.

4.11. Gross Fixed Assets (GFA), Capitalisation and Depreciation

Petitioner's Submission:

The opening balance of GFA comes to Rs. 693.69 crore for the FY 2012-13 as per the annual accounts. In the Tariff order dated 27th June, 2012, the Commission had not considered the opening value of Assets while approving the Gross Fixed Assets as the Petitioner had not submitted a reliable Fixed Asset Register and audited accounts to support the claim in the Petition. Now, the present submission of the True Up for the FY 2012-13 is based on the audited accounts.

Further, the prevailing infrastructure is insufficient to cater to the present load and hence to meet the increasing demand from HT and LT load, it is absolutely necessary to undertake significant capital expenditure. Accordingly, the capital expenditure of Rs. 97.20 crore was undertaken for the FY 2012-13 and the assets worth Rs. 123.15 crore net (Rs. 125.81 addition less Rs. 2.66 crore retired) were capitalized and the Commission is requested to allow the actual expenditure and capitalisation so as to ensure the creation of infrastructure for adherence to the Standards of Performance and Supply Code Regulations.

Also, as per Regulation 26 of the Tariff Regulations, 2009, depreciation for the assets has been calculated annually at the rates specified by CERC from time to time on different asset categories. Further, the depreciation arrived in annual accounts for the FY 2012-13 is based on the rates specified by the Commission in its Tariff Regulations which is charged on pro-rata basis and the Commission is requested to approve the depreciation of Rs. 35.45 crore for the FY 2012-13.

Commission's Analysis:

The Commission has taken the closing GFA of the FY 2011-12 as approved in previous Chapter as the opening GFA for the FY 2012-13. Further, the asset addition has been

considered as per the audited accounts to arrive at the closing GFA for the FY 2012-13 as shown in the Table below:

Table 4.11: GFA approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

Particulars	Approved in the Tariff Order dated 28th April, 2016	Petitioner's submission (True-up)	Approved by the Commission As per Audited A/c (True-up)
Opening GFA	126.00	693.69	693.69
Addition during the year	81.30	125.81	125.81
Adjustment/Retirement during the FY		2.66	2.66
Closing GFA	**207.30**	**816.84**	**816.84**

In respect of depreciation, the Commission has followed Regulation 26 of the Tariff Regulations 2009, as under:

"26. Depreciation

(1) For the purpose of tariff, depreciation shall be computed in the following manner:

(i) The value base for the purpose of depreciation shall be the historical cost of the assets, that is actual expenses limited to approved capital cost where such capital cost has been approved by the Commission:

Provided that land is not a depreciable asset and its cost shall be excluded from the capital cost while computing depreciation.

(ii) The historical cost of the asset shall include additional capitalization.

(iii) The historical cost shall include foreign currency funding converted into equivalent rupees at the exchange rate prevalent on the date when foreign currency was actually availed but not later than the date of commercial operation.

(iv) Depreciation for generation and transmission assets shall be calculated annually as per straight-line method over the useful life of the asset at the rate of depreciation specified by the Central Electricity Regulatory Commission from time to time.

Provided that the total depreciation during the life of the asset shall not exceed 90% of the original cost.

Depreciation for distribution and other assets not covered by CERC shall be as per Government of India norms of 1994 as may be revised by the Commission from time to time."

The Commission has not applied the CERC rates applicable on the average assets in place, since some of these assets have already attained the 90% limit of depreciation during the life of the asset, and accordingly has approved depreciation as per the audited accounts for the True-up of the FY 2011-12 and FY 2012-13 as shown in the following Tables:

Table 4.12: Asset-wise depreciation approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

Particulars	Opening GFA	Addn in GFA	Del in GFA	Closing GFA	Average Assets	Eff. Rate of depreciation	Depreciation
	(a)	(b)	(c)	(d)= a+b-c	(e)= (a+d)/2	(f)=g/e	(g)
1	2	3	4	5	6	7	8
Plant & Machinery	668.60	125.30	2.60	791.30	729.95	4.74%	34.63
Buildings	13.32	0.02	0.00	13.34	13.33	3.13%	0.42
Vehicles	3.08	0.36	0.04	3.41	3.24	8.21%	0.27
Furniture and Fixtures	1.08	0.05	0.01	1.12	1.10	5.65%	0.06
Computers & others	1.33	0.08	0.02	1.39	1.36	5.62%	0.08

1	2	3	4	5	6	7	8
Land	6.28	0.00	0.00	6.28	6.28	0.00%	0.00
Total	**693.69**	**125.81**	**2.66**	**816.84**	**755.27**		**35.45**

The depreciation amount as submitted by the Petitioner and approved by the Commission in the True-up of FY 2012-13 is shown in the Table below:

Table 4.13: Depreciation approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

Particulars	Approved in APR Order dated 31-03-2013	Petitioner's submission (True-up)	Approved by the Commission As per Audited A/c (True-up)
Depreciation	8.80	35.45	35.45

Therefore, the Commission approves actual depreciation of Rs. 35.45 crore for True-up of the FY 2012-13.

4.12. Interest and Finance Charges

Petitioner's Submission:

Regulation 25 of the Tariff Regulations, 2009, provides for Interest and Finance Charges on Loan. The majority of capital assets are created out of the equity contribution from the Government of Goa. However, the interest expenses have been claimed on the basis of normative loan calculation whereby 70% of the opening GFA and the capitalisation during the year has been considered as normative debt. Further, interest on normative loan is higher than that approved in the Order by the Commission due to the fact that opening GFA was not approved by the Commission in the absence of audited accounts, resulting in disallowance of the opening normative loan also. Other than interest on normative loan, other Interest and Finance charges towards bank charges, LC charges, etc. have also been claimed.

The Commission is requested to approve the Interest & Finance Charges at Rs. 61.93 crore (Rs. 60.06 crore + Rs. 1.87 crore) for FY 2012-13.

Commission's Analysis:

As per Regulation 25 of the Tariff Regulations, 2009:

"1) For existing loan capital interest and finance charges on loan capital shall be computed on the outstanding loans, duly taking into account the rate of interest and schedule of repayment as per the terms and conditions of relevant agreements.

2) Interest and finance charges on loan capital for new investments shall be computed on the loans, duly taking into account the rate of interest and the schedule of repayment as per the terms and conditions of relevant agreements. The rate of interest shall, however, be restricted to the prevailing Prime Lending Rate of the State Bank of India." (Read SBI Advance Rate)

Further as per Regulation 23 of the said Tariff Regulations, 2009:

"23. Debt-Equity Ratio

1) For the purpose of determination of tariff, debt-equity ratio in case of existing, ongoing as well as new projects commencing after the date of notification of these Regulations shall be 70:30. Where equity employed is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30% and the balance amount shall be considered as loan. Where actual equity employed is less than 30%, the actual debt and equity shall be considered for determination of tariff:

2) Provided that the Commission may, in appropriate cases, consider equity higher than 30% for the purpose of determination of tariff, where the generating company or the

licensee is able to establish to the satisfaction of the Commission that deployment of equity more than 30% is in the interest of the general public: .

3) The debt and equity amounts arrived at in accordance with sub-regulation (1) above shall be used for all purposes including for determining interest on loan, return on equity, Advance against Depreciation and Foreign Exchange Rate Variation.

4) Provided that in the case of an Integrated Utility, till the time it remains Integrated Utility, it shall be entitled to return on its capital base as per Schedule VI to the repealed Electricity (Supply) Act, 1948."

The Commission has considered closing normative loan approved for the FY 2011-12 in the previous Chapter as opening loan for the FY 2012-13. Further, a net addition of Rs. 123.15 crore in gross fixed assets for the FY 2012-13 respectively, which are considered funded through normative debt to the tune of 70%. The Commission, for the purpose of funding of the capitalisation has considered the normative debt-equity ratio of 70:30, whereby it has considered the addition in normative loan at Rs. 86.20 crore (70% of Rs. 123.15 crores) for the FY 2012-13.

The Commission has considered weighted average rate of SBI PLR for the year at 14.61% for the FY 2012-13 and the repayment of the debt has been considered at 10% of the opening loan amount. Further, the Commission verified the other financing charges from the audited accounts and accordingly has approved the same for the FY 2012-13.

The calculation of the interest on the normative loan is given in the following Table:

Table 4.14: Normative interest on loan approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

Sr. No.	Particulars	Approved in APR Order Dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Opening normative loan	88.20	394.21	68.74
2	Add: Normative loan during the year	56.91	65.43	86.20
3	Less: Normative repayment (10 % of 1)	8.82	39.42	6.87
4	Closing normative loan (1+2-3)	136.29	420.22	148.07
5	**Average normative loan (1+4) * 0.5**	112.25	407.21	108.40
6	Rate of interest (SBI PLR)	8.49%	14.75%	14.61%
7	**Interest on normative loan**	**9.53**	**60.06**	**15.84**
8	Financing Charges	0.80	1.87	1.87
9	**Total Interest and Finance Charges**	**10.33**	**61.93**	**17.71**

Therefore, the Commission approves interest and finance charges of Rs. 17.71 crore in the True-up for the FY 2012-13.

4.13. Interest on Security Deposit

Petitioner's Submission:

Regulation 25 of Tariff Regulations, 2009 read along with Clause 47(4) of the Electricity Act, 2003 provides for Interest on Security Deposit, if any, made by the consumer with the licensee.

An amount of Rs. 0.23 crore have been claimed as actual interest paid to the consumers on security deposits for the FY 2012-13.

Commission's Analysis:

The Commission has verified the submission from the audited accounts and observed that the Petitioner has provisioned an amount of Rs. 1.62 crore and Rs. 2.88 crore against interest on security deposit for the FY 2011-12 and FY 2012-13 respectively and the

cumulative amount of Rs. 4.50 crore has been shown as current liability in the balance sheet of FY 2012-13. Further, there is no mention of Rs. 0.23 crore in the audited accounts of the FY 2012-13.

The Commission has computed the interest amount due for the payment by applying the bank rate on average security deposit available as follows:

Table 4.15: Interest on Security Deposit approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

S. No.	Particulars	Approved in APR Order dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Opening Security Deposit	62.57	90.58	90.58
2	Add: Deposits during the Year	9.19	21.54	21.54
3	Less: Deposits refunded	1.52	5.54	5.54
4	Closing Security Deposit	70.24	106.58	106.58
5	**Average Security Deposit**	**66.41**	**98.58**	**98.58**
6	Bank Rate	9.50%	9.50%	9.50%
7	**Interest on Security Deposit (Due)**	**5.94**	**9.36**	**9.36**
8	Interest on Security Deposit (Actually Paid)		0.23	0.00
9	**Balance to be paid to the consumers**	**5.94**	**9.13**	**9.36**

Considering the fact that there is no interest payout in actuals, the Commission has not approved any interest on security deposit in the True-up of the ARR for the FY 2012-13. The Commission directs the Petitioner to pay the balance interest on consumer security deposit of Rs. 9.36 crore in the FY 2017-18.

4.14. Return on Capital Base

Petitioner's Submission:

EDG being an integrated Utility, it is entitled to return on capital base under the provisions of Schedule VI of the repealed Electricity (Supply) Act, 1948 vide provision under Regulation 23 of Tariff Regulations, 2009. EDG has calculated the return on capital base at 3%. The Commission is requested to kindly allow the return on Net Fixed Assets (NFA) amounting to Rs. 15.27 crore for the FY 2012-13.

Commission's Analysis:

Being an integrated utility, EDG is entitled to return on capital base as per Regulation 23 of the Tariff Regulations, 2009. Hence the Commission approves return on capital base on the basis of GFA and cumulative depreciation as on 01st April, 2012 as submitted by the Petitioner and as verified from the audited accounts as per the following Table:

Table 4.16: Return on Capital Base approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

Sr. No.	Particulars	Approved in APR Order Dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
1	Gross block at beginning of the FY	126.00	693.69	693.69
2	Less: Opening accumulated depreciation	3.33	184.63	184.63
3	Net block at beginning of the FY (1-2)	122.67	509.06	509.06
4	Less: Opening accumulated consumer contribution	0.00	0.00	0.00

1	2	3	4	5
5	Net fixed assets at beginning of the FY (3-4)	122.67	509.06	509.06
6	**Return @3% of NFA**	**3.68**	**15.27**	**15.27**

Therefore, the Commission approves Return on Net Fixed Assets (NFA) of Rs. 15.27 crore in the True-up for the FY 2012-13.

4.15. Interest on Working Capital

Petitioner's Submission:

Interest on Working Capital has been claimed in accordance with Regulation 29 of the Tariff Regulations, 2009. Further, the closing balance of the security deposit has been deducted from the total normative Working Capital requirement for computing the Working Capital requirement as per the methodology followed by the Commission in its previous Tariff Order.

Commission's Analysis:

As per Regulation 29 of the Tariff Regulations, 2009:

"*(3) Subject to prudence check, the working capital for integrated utility shall be the sum of one month requirement for meeting:*

a. *Power purchase cost.*
b. *Employees cost.*
c. *Administration & general expenses.*
d. *Repair & Maintenance expenses.*
e. *Sum of two month requirement for meeting Fuel cost.*

5) *The rate of interest on working capital shall be equal to the short term Prime Lending Rate of State Bank of India on the 1st April of the relevant financial year. The interest on working capital shall be payable on normative basis notwithstanding that the generating company/licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures."*

The Commission has considered the calculation of the different components of the Working Capital on the basis of the above-stipulated norms. The Commission has deducted average consumer security deposit from the Working Capital requirement considered for True-up of ARR for the FY 2012-13. The Commission has considered the SBI PLR as applicable on 01st April, 2012. (https://www.sbi.co.in/portal/web/interest-rates/benchmark-prime-lending-rate-historical-data)

The detailed calculations of the interest on the Working Capital are as mentioned in the Table below:

Table 4.17: Interest on Working Capital approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

S. No.	Particulars	Approved in APR Order dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
1	Power Purchase Cost for one month	71.66	87.10	87.10
2	Employee Cost for one month	11.37	12.89	12.89
3	A&G Expenses for one month	0.72	1.86	1.86

1	2	3	4	5
4	R&M Expenses for one month	1.55	1.60	1.60
5	**Total Working Capital for one month**	**85.29**	**103.44**	**103.44**
6	Security Deposit (amount with EDG)	70.24	90.58	98.58
7	**Total borrowing for Working Capital considered for one month**	**15.05**	**12.86**	**4.86**
8	SBI PLR Rate (%)	14.75%	14.75%	14.75%
9	**Interest on Working Capital**	**2.22**	**1.90**	**0.72**

Therefore, the Commission approves Rs. 0.72 crore as Interest on Working Capital in the True-up for the FY 2012-13.

4.16. Provision for Bad and Doubtful Debts

Petitioner's Submission:

The Commission has stated in the Tariff Order that bad and doubtful debts actually written off, limited to 1% as per the Regulations, would be considered only after the availability of audited accounts and would be taken up at the time of the True-up of the ARR. Accordingly, based on the audited accounts, bad and doubtful debts actually written off in the ARR amount to Rs. 2.63 crore in the FY 2012-13.

Commission's Analysis:

As specified in Regulation 28 of the Tariff Regulations, 2009 (to be read with the format):

"The Commission may, after the generating company/licensee gets the receivables audited, allow a provision for bad debts up to 1% of receivables in the revenue requirement of the generating company/licensee."

It is observed that as per the audited accounts, the licensee has not written off any amount in the FY 2012-13. Therefore, the Commission does not approve any amount under the provision of bad and doubtful debts.

4.17. Non-Tariff Income

Petitioner's Submission:

Non-Tariff Income of Rs. 13.57 crore has been claimed in the True-up of the FY 2012-13.

Commission's Analysis:

The Commission has verified the submission of the Petitioner from the audited accounts and found the same to be correct. Hence, the total Non-Tariff Income is Rs. 13.57 crore for the FY 2012-13 as per the audited accounts, which is approved by the Commission as follows:

Table 4.18: Non-Tariff Income approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

Particulars	Approved in the Tariff Order Dated 28th April, 2016	Petitioner's submission (True-up)	Approved by the Commission (As per audited A/c) (True-up)
Sale Proceeds of dead stock, waste paper etc.	23.06	0.31	0.31
Receipt from State Electrical Inspectorate		0.23	0.23
Misc. Receipts/income		8.02	8.02
Meter/service rent		3.73	3.73
Deferred Income (Electricity Development fund)		1.26	1.26
Gross Total	**23.06**	**13.57**	**13.57**

Therefore, the Commission approves the Non-Tariff Income of Rs. 13.57 crore for the FY 2012-13.

4.18. Revenue from Sale of Surplus Power/Unscheduled Interchange (UI)

Petitioner's Submission:

Revenue from the sale of surplus power is Rs. 32.77 crore for the FY 2012-13 against the corresponding approved amount of Rs. 6.11 crore for the FY 2012-13.

Commission's Analysis:

The Commission has analyzed the submission made by the Petitioner regarding the sale of surplus power in the Exchange plus UI sales from the audited accounts and found that the Petitioner has received the following revenue from the sale of surplus power in the Exchange and UI in the FY 2011-12 and FY 2012-13 respectively:

Table 4.19: Revenue from Sale of surplus power approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

Revenue Source	Petitioner's submission (True-up)	Approved by the Commission (As per audited A/c) (True-up)
Through sale in Power Exchange	12.08	12.08
Through sale in UI	20.68	20.68
Total Revenue from sale of Surplus Power	**32.77**	**32.77**

Therefore the Commission approves the revenue from sale of surplus power of Rs. 32.77 crore in the True-up for the FY 2012-13.

4.19. Revenue at approved Retail Tariff

Petitioner's Submission:

The revenue from Tariff was Rs. 973.58 crore for the FY 2012-13.

Commission's Analysis:

The Commission has verified revenue from the sale of power within the State in the FY 2012-13 from the audited accounts.

The category-wise revenue as submitted by the Petitioner and approved by the Commission is shown in the Table below:

Table 4.20: Revenue from Retail Sale power approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

Sr. No.	Particulars	FY 2012-13		
		Approved in APR Order Dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	2	3	4	5
1	**A. LOW TENSION SUPPLY**	**261.22**	**301.16**	**301.16**
2	(a) LTD/Domestic	144.00	150.70	150.70
3	(b) LTD/L.I.G.	0.38	1.05	1.05
4	(c) LTD Domestic Mixed	1.00	1.33	1.33
5	LTC/Commercial	76.00	104.83	104.83
6	(a) LTP/Motive Power	30.00	24.10	24.10
7	(b) LTP Mixed (Hotel Industries)	2.06	2.83	2.83

1	2	3	4	5
8	(c) LTP Ice Manufacturing	0.00	2.37	2.37
9	LTAG/Agriculture	2.23	2.31	2.31
10	(a) LTPL (Public lighting)	4.78	10.61	10.61
11	(b) Arrears		0.05	0.05
12	LTPWW/Public Water works	0.77	0.99	0.99
13	**B. HIGH TENSION SUPPLY**	**667.11**	**657.03**	**657.03**
14	HT (Mixed)	102.58	47.18	47.18
15	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive	198.00	195.66	195.66
16	HTI Industrial	238.84	242.27	242.27
17	HTAG (Agriculture)	0.75	1.20	1.20
18	EHTI (Industrial)	57.63	55.50	55.50
19	HT P.W.W. & Sewage system	35.14	57.76	57.76
20	HT. M.E.'s Defense Estt.	11.72	9.61	9.61
21	HTI (Steel Rolling)	20.00	24.87	24.87
22	HTI/IT High Tech	2.45	15.58	15.58
23	HTI/Ice Manufacturing	0.00	0.18	0.18
24	(a) Sale from EDG to GSPL (Div. VII)		1.57	1.57
25	Sale to MSEDCL (Div. VI)		-0.05	-0.05
26	HTI Hotel Industry		5.72	5.72
27	**C. TEMPORARY SUPPLY**	**10.95**	**15.11**	**15.11**
28	(a) L.T. Temporary	10.32	14.27	14.27
29	(b) H.T. Temporary	0.63	0.84	0.84
30	Arrears under RRC (with No. of cases)		0.27	0.27
31	FPPCA charge	33.03		0.00
	Gross Total	**972.31**	**973.58**	**973.58**

Therefore, the Commission approves the revenue from sale of power at Rs. 973.58 crore in the True-up for the FY 2012-13.

4.20. Aggregate Revenue Requirement (ARR)

Petitioner's Submission:

The Net Aggregate Revenue Requirement as approved by the Commission in the Review of the ARR for the FY 2012-13 was Rs. 1,031.99 crore. Based on the True-up submissions for the FY 2012-13, the Commission is requested to approve an ARR of Rs. 1,312.36 crore.

Commission's Analysis:

The Commission on the basis of the detailed analysis of the cost parameters of the ARR has considered and approved the revenue requirement in the True-up of the FY 2012-13 at Rs. 1,264.10 crore as given in the following Table:

Table 4.21: Net ARR approved by the Commission in the True-up of FY 2012-13 (Rs. crore)

S. No.	Particulars	FY 2012-13		
		Approved in APR Order dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Cost of power purchase for full year	866.01	1,045.22	1,045.22
2	Employee costs	136.44	154.63	154.63
3	Administration and General Expenses	8.59	22.27	22.27
4	Repair and Maintenance Expenses	18.55	19.16	19.16
5	Depreciation	8.80	35.45	35.45
6	Interest and Finance charges	10.33	61.93	17.71
7	Interest on Working Capital	2.22	1.90	0.72
8	Interest on Security Deposit	5.94	0.23	-
9	Return on NFA	3.68	15.27	15.27
10	Provision for Bad Debt	-	2.62	-
11	Other Expenses	0.60		
12	**Total Revenue Requirement**	**1,061.17**	**1,358.69**	**1,310.43**
13	Less: Non-Tariff Income	23.06	13.57	13.57
14	Less: Revenue from Surplus Power Sale/UI	6.11	32.77	32.77
15	**Net Revenue Requirement**	**1,031.99**	**1,312.36**	**1,264.10**

4.21. Revenue Gap/(Surplus)

Petitioner's Submission:

The entire gap for the FY 2012-13 was committed to be funded by the Government of Goa by way of budgetary support. A letter from the Government of Goa was also submitted wherein the Government of Goa had assured that it would provide requisite budgetary support to meet the deficit at the existing tariff for the FY 2012-13. In view of the budgetary support for FY 2012-13 from the Government of Goa, there is no net revenue gap for FY 2012-13.

Accordingly, the revenue gap of Rs. 338.78 crore for the FY 2012-13, has not been carried forward and will be met through the budgetary support as proposed in the earlier submission.

Commission's Analysis:

The Commission has analyzed and approved the Revenue Gap/(Surplus) as follows:

Table 4.22: Revenue Gap/(Surplus) approved by the Commission in the True-up of the FY 2012-13 (Rs. crore)

Sr. No.	Particulars	FY 2012-13		
		Approved in APR Order Dated 31-03-2013	Petitioner's Submission (True-up)	Approved by the Commission (True-up)
1	Net Revenue Requirement	1,031.99	1,312.36	1,264.10
2	Revenue from Retail Sales at Existing Tariff	970.94	973.58	973.58
3	**Net Gap/(Surplus)**	**61.05**	**338.78**	**290.52**
4	Budgetary Support from Government	61.05	338.78	290.52
5	**Net Final Revenue Gap/(Surplus)**	**-**	**-**	**-**

The Petitioner has submitted that the entire gap for the FY 2012-13 is committed to be funded by the Government of Goa by way of budgetary support. The Petitioner in this regard has also earlier submitted the letter from the Government of Goa wherein it has assured that it would provide requisite budgetary support to meet the deficit at the existing tariff for the FY 2012-13. **In view of the budgetary support for the FY 2012-13**

from the Government of Goa, the Commission approves Nil net revenue gap in the True-up for the FY 2012-13.

Chapter 5. True-up of the FY 2013-14, FY 2014-15 and FY 2015-16

5.1. Applicable provisions of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009

The True-up of the previous years is to be carried out as per Regulation 8 (2) of the Tariff Regulations, 2009:

(2) (i) After audited accounts of a year are made available, the Commission shall undertake similar exercise as above with reference to the final actual figures as per the audited accounts. This exercise with reference to audited accounts shall be called 'Truing Up".

(ii) The Truing Up for any year will ordinarily not be considered after more than one year of 'Review'.

(3) The revenue gap of the ensuing year shall be adjusted as a result of review and truing up exercises.

(4) While approving such expenses/revenues to be adjusted in the future years as arising out of the Review and/or Truing up exercises, the Commission may allow the carrying costs as determined by the Commission of such expenses/revenues. Carrying costs shall be limited to the interest rate approved for working capital borrowings.

(5) For any revision in approvals, the licensee would be required to satisfy the Commission that the revision is necessary due to conditions beyond its control.

(6) In case additional supply is required to be made to any particular category, the licensee may, any time during the year make an application to the Commission for its approval. The application will demonstrate the need for such change of consumer mix and additional supply of power and also indicate the manner in which the licensee proposes to meet the cost for such change of consumer mix and additional supply of power.

(7) The Commission may consider granting approval to such proposals provided the cost of additional supply is ordinarily met by the beneficiary category."

5.2. Approach for the True-up of the FY 2013-14, FY 2014-15 and FY 2015-16

Petitioner's Submission:

The finalization of audited accounts for the FY 2013-14 and FY 2014-15 is in process and the Commission shall be approached for truing-up at a later date when the audited accounts are available. Further, the provisional figures are available for FY 2015-16 and the finalization of accounts is under process. Based on the provisional accounts, the Commission is requested to approve the provisional actual figures of the FY 2015-16 for determination of ARR & Revenue gap and treatment thereof.

Commission's Analysis:

The Commission notes that the Petitioner has not submitted the audited accounts prepared on commercial principles for the FY 2013-14, FY 2014-15 and FY 2015-16. The Commission in its previous Orders had stressed upon the requirement of the audited accounts to bring in more accuracy in the estimates made by the Commission. The Tariff Regulations 2009 also require the licensee to file the True-up along with the audited accounts in the filing.

The Commission now directs the Petitioner to prepare and submit the accounts from the FY 2013-14 onwards based on commercial principles along with the True-up Petitions by 30th November, 2017.

The True-up would therefore be taken up only after submission of the audited accounts. Accordingly, the Commission has decided not to consider True-up for the FY 2013-14, FY 2014-15 and FY 2015-16 in the current Order.

Chapter 6. Annual Performance Review of FY 2016-17

6.1. Applicable provisions of JERC for the State of Goa and Union Territories (except Delhi) (Multi Year Distribution Tariff) Regulations, 2014

The Annual Performance Review of the FY 2016-17 is to be carried out as per the following provisions of Regulation 8 of the JERC for the State of Goa and Union Territories (except Delhi) (Multi Year Distribution Tariff) Regulations, 2014 herein referred to as MYT Regulations, 2014:

"(1) The Commission shall undertake a review along with the next Tariff Order of the expenses and revenue approved by the Commission in the Tariff Order. While doing so, the Commission shall consider variations between approvals and revised estimates/actuals of sale of electricity, income and expenditure for the relevant year and permit necessary adjustments/changes in case such variations are for adequate and justifiable reasons. Such an exercise shall be called 'Review'.

……(3) The revenue gap/surplus, if any, of the ensuing year shall be adjusted as a result of review and truing up exercises.

(4) While approving such expenses/revenue to be adjusted in the future years as arising out of the Review and/or Truing-up exercises, the Commission may allow the carrying costs as determined by the Commission of such expenses/revenue. Carrying costs shall be limited to the interest rate approved for working capital borrowings.

(5) For any revision in approvals, the licensee would be required to satisfy the Commission that the revision is due to conditions beyond its control.

(6) In case additional supply is required to be made to any particular category, the licensee may, any time during the year make an application to the Commission for its approval. The application will demonstrate the need for such additional supply of power and also indicate the manner in which the licensee proposes to meet the cost for such additional supply of power."

6.2. Approach for the Review of the ARR of FY 2016-17

Petitioner's Submission:

The Annual Performance Review petition for the FY 2016-17 is based on the actual performance during the 1st half of the year and the revised estimates for the second half of the year. However, as the accounts and the audit of the previous years i.e. from FY 2013-14 onwards is still under process and therefore, the estimates of the second half are undertaken based on the prudence judgement, past experience and expected changes to occur in H2 of FY 2016-17.

Commission's Analysis:

In the provisional True-up of the FY 2015-16, the Petitioner has submitted the following:

"5.4.2 However, EDG would like to submit that there were issues related to billing of energy to consumers for few months in H2 of FY 2015-16 due to changeover of the billing agencies and the transition period thereof. This non-billing has resulted in to lower billing than what it would have been in FY 2015-16 which is however billed respectively in FY 2016-17.

5.4.3 EDG submits that the meter reading, billing and collection process is being streamlined now and had gone through a transformation phase in FY 2015-16. In the past, it

was maintained by several different agencies separately in each division and each agency had its separate logic for bill calculation and bill generation.

5.4.4 However, now a common agency is taking over all the billing and collection data for HT and LT consumers and a common process will be followed for all the division to avoid ambiguity in the process and data. While this streamlining process is in progress, a lot of errors in the legacy data have been discovered and the error rectification process is going on."

The Commission notes from the submission made by the Petitioner that energy sales pertaining to a few months of H2 of FY 2015-16 have actually been billed in the FY 2016-17 due to the issues pertaining to changeover of the billing agencies.

During the Technical Validation Session, the Commission further asked the Petitioner to segregate the quantum of such sales which actually pertaining to the FY 2015-16 but have been billed in the FY 2016-17, and submit the revised figures to the Commission. The Petitioner expressed its inability to provide this segregated information at this stage as the information is present in the form of software dump and the analysis and segregation of information will take considerable time.

The Commission is of the view that in the absence of details of the separate actual sales of the FY 2016-17, it is not prudent to approve the revised power purchase requirement and revenue from retail sale on the basis of the clubbed information presently available. The Commission shall consider the actual performance at the time of the True-up of the FY 2016-17 once the audited accounts as directed above are submitted by the Petitioner.

Accordingly, the Commission has decided not to consider the Annual Performance Review of the FY 2016-17.

Chapter 7. Approval of the various ARR components for FY 2017-18

7.1. Approach for the ARR of FY 2017-18

The Petitioner has submitted the same ARR for the FY 2017-18 as approved in the MYT Order dated 18th April, 2016 and has not sought any variation in any expense component. However, the Petitioner has now recomputed revenue from the sale of power on the basis of the revised Tariff approved by the Commission in its previous Tariff Order. As the Commission is not undertaking any review for the FY 2016-17 for the reasons detailed in the previous chapter, the Commission is retaining the projections and consequently costs/revenue for the FY 2017-18 at the same level as approved in the MYT Order dated 18th April, 2016.

7.2. Annual Revenue Requirement (ARR)

Petitioner's Submission:

The ARR for the FY 2017-18 is proposed to be the same as that approved by the Commission in the MYT Order dated 18th April, 2016 i.e. Rs. 1845.32 crore with no variation in any of the expense components. However, the revenue from the sale of power has been computed on the basis of the revised tariff approved by the Commission for the FY 2016-17 in the Order dated 18th April, 2016.

Commission's Analysis:

As detailed in the previous Chapter, the Commission is not undertaking any review of the FY 2016-17. Since no review is being done by the Commission, the Commission finds no justification of revising the ARR of FY 2017-18 and accordingly, has decided to retain the same ARR as approved in the MYT Order dated 18th April, 2016 for FY 2017-18 as shown in the Table below:

Table 7.1 ARR approved by the Commission for FY 2017-18 (In Rs. crore)

Sr. No.	Particulars	Approved in MYT Order Dated 18th April, 2016 for FY 2017-18	ARR considered by the Commission in present Order
1	Cost of Power Purchase	1330.98	1330.98
2	Provision for RPO Compliance	9.38	9.38
3	Employee Expenses	254.24	254.24
4	R&M Expenses	30.57	30.57
5	A&G Expenses	10.12	10.12
6	Depreciation	64.16	64.16
7	Interest on Loan	74.04	74.04
8	Interest on Consumer Security Deposit	6.93	6.93
9	Interest on Working Capital	9.90	9.90
10	Return on Equity	58.33	58.33
11	Provision for Bad Debit	0.00	0.00
12	Provision for DSM Expenses	3.41	3.41
13	**Total Revenue Requirement**	**1852.06**	**1852.06**
14	Less: Non-Tariff Income	6.74	6.74
15	**Net Revenue Requirement**	**1845.32**	**1845.32**

The Petitioner shall compute fuel and power procurement cost variations, and adjustments shall be made in the consumer bills based on the Fuel and Power Purchase Cost Adjustment (FPPCA) formula notified by the Commission. For the purposes of calculation, the approved per unit cost of power purchase ($R_{approved}$) shall be taken as 261 paisa per unit for FY 2017-18.

7.3. Revenue at existing Retail Tariff of FY 2017-18

Petitioner's Submission:

The revenue from retail tariff is projected as Rs. 1719.91 crore for the FY 2017-18.

Commission's Analysis:

Based on the approved energy sales, the number of consumers and the connected load as approved in MYT Order dated 18th April, 2016 for the FY 2017-18 and considering the existing approved retail tariff, the Commission has computed the revenue for the FY 2017-18 as follows:

Table 7.2 Revenue from Sale of Power approved by the Commission for the FY 2017-18 (Rs. crore)

Category	Sales	Revenue at Approved Tariff (Rs. Crores)		
		Fixed	Energy	Total
1	2	3	4	5
DOMESTIC				
Low Tension-D/LT-D				
0-100 units	88.44	4.85	11.50	16.35
101-200 units	204.27	3.44	38.81	42.25
201 to 300 units	151.88	3.06	36.45	39.52
301 to 400 units	124.43	2.51	38.57	41.09
Above 400 units	360.88	2.27	129.92	132.19
Low Tension-LIG/LT-LIG	**1.10**	**0.11**	**0.00**	**0.11**
High Tension-D/HT-D				
All Units	0.27	0.03	0.12	0.15
Sub-total Domestic–Overall	**931.27**	**16.29**	**255.37**	**271.66**
COMMERCIAL				
Low Tension-C/LT-C				
0-100 units	24.06	1.28	7.82	9.09
101-200 units	16.04	0.85	6.26	7.11

1	2	3	4	5
201 units-400 units	194.27	5.76	83.54	89.30
Above 400 units	83.01	7.97	39.01	46.99
High Tension-C/HT-C				
All Units	76.10	12.77	41.85	54.62
Sub-total Commercial–Overall	**393.47**	**28.63**	**178.48**	**207.11**
INDUSTRIAL				
Low Tension-I/LT-I				
0-500 units	62.28	2.41	19.31	21.72
Above 500 units	68.97	1.75	24.14	25.89
Low Tension-Mixed/LT-P (Hotel Industries)				
All Units	4.83	0.15	2.17	2.33
High Tension-I/HT-I				
Connected at 11/33 kV	1203.59	103.90	517.55	621.45
Connected at 110 kV	142.23	21.27	59.74	81.00
High Tension-Ferro/SM/PI/SR				
All Units	571.84	34.43	245.89	280.32
Sub-total Industrial–Overall	**2053.75**	**163.91**	**868.80**	**1032.70**
AGRICULTURAL				
Low Tension-AG/LT-AGP (Pump sets/Irritation)				
All Units	17.90	0.37	2.33	2.70
Low Tension-AG/LT-AGA (Allied)				
All Units	5.97	0.21	0.95	1.16
High Tension-AG/HT-AGP (Pump sets/Irritation)				
All Units	4.56	0.26	0.64	0.90
High Tension-AG/HT-AGA (Allied)				
All Units	1.52	0.13	0.27	0.40
Sub-total Agricultural–Overall	**29.95**	**0.97**	**4.19**	**5.16**
MILITARY ENGINEERING SERVICES/DEFENSE ESTABLISHMENTS				
All Units	26.89	1.49	13.44	14.93
Sub-total MES/DE-Overall	**26.89**	**1.49**	**13.44**	**14.93**
PUBLIC LIGHTING				
All Units	36.95	0.46	14.41	14.87
Sub-total Public Lighting-Overall	**36.95**	**0.46**	**14.41**	**14.87**
HOARDINGS/SIGNBOARDS				
All Units	0.35	0.00	0.35	0.35
Sub-total Hoardings/Signboards-Overall	**0.35**	**0.00**	**0.35**	**0.35**
TEMPORARY SUPPLY				
LT Temporary Domestic	17.47	0.06	12.23	12.29
LT Temporary Commercial	4.61	0.03	4.57	4.60
Sub-total Temporary-Overall	**22.08**	**0.09**	**16.80**	**16.89**
Overall LT Sales	*1467.71*	*37.56*	*472.33*	*509.89*
Overall HT Sales	*2027.00*	*174.27*	*879.50*	*1053.77*
Total Sales	**3494.71**	**211.84**	**1351.83**	**1563.67**

Therefore, the Commission considers Revenue from approved Retail Tariff of Rs. 1563.67 crore for the FY 2017-18.

7.4. ARR, Revenue Deficit/(Surplus) for the FY 2017-18

Petitioner's Submission:

The Commission is requested to approve the revenue gap of Rs. 125.41 crore for the FY 2017-18.

Commission's Analysis:

Keeping in view the ARR and Revenue from the sale of power approved above, the Commission hereby approves the revenue gap for the FY 2017-18 as shown in the following Table:

Table 7.3: Revenue Gap/(Surplus) approved by the Commission for the FY 2017-18 (Rs. crore)

Sr. No.	Particulars	Approved in the MYT Order Dated 18th April, 2016	Petitioner's submission (ARR)	Approved by the Commission (ARR)
1	Net Revenue Requirement	1845.32	1845.32	1845.32
2	Revenue from Retail Sales at Existing Tariff	-	1719.91	1563.67
3	**Net Gap/(Surplus)**	**-**	**125.41**	**281.65**
4	Gap/(Surplus) for the previous year	-	0.00	0.00
5	**Total Gap/(Surplus)**	**-**	**125.41**	**281.65**

Therefore, the Commission approves the estimated stand alone revenue gap of Rs. 281.65 crore for the FY 2017-18.

Chapter 8. Tariff Principles and Designs

8.1. Preamble

The Commission in determining the ARR and Retail supply tariff for the FY 2017-18, has been guided by the provisions of the Electricity Act, 2003, the Tariff Policy, Regulations on Terms and Conditions of Tariff issued by the Central Electricity Regulatory Commission (CERC), and the MYT Regulations, 2014 notified by JERC under Section 64 of the Act which lay down the broad principles and guide the determination of retail Tariff.

8.2. Principles of Tariff Design

As per Regulation 36 of MYT Regulations, 2014, "Cross Subsidy, Allocation of Cost to Serve and Tariff Design"-

"a. The Commission shall gradually move towards reduction of cross subsidy in accordance with Electricity Act, Tariff Policy and such other guidelines of the Government as applicable.

b. The Distribution Licensee shall compute the consumer category-wise cost of supply as per the methodology elaborated below.

c. Allocation of Cost: The Cost to serve shall be allocated to the consumer categories in the following manner:

Step 1: Functional Demarcation of Cost–Total cost shall be divided on the basis of functions performed such as power purchase, distribution etc.

Step 2: Classification of Cost–Each of the functionalized costs shall be further classified, based on its intrinsic nature into Demand related cost, Energy related cost and Customer related cost. Demand related costs shall generally be of fixed nature, related to capacity creation and shall include interest on capital borrowing, depreciation etc. Energy cost shall be related to quantum of electricity consumption of consumer, such as fuel cost, interest on working capital, etc. Consumer related cost shall include operating expenses associated with meter reading, billing and accounting.

Step 3: Allocation of Cost

6) Allocation of Demand Costs: Demand costs of all three functions shall be allocated among consumer categories on the basis of average coincident peak demand of the tariff categories (average of past 12 months). To facilitate determination of average coincident

peak demand for the various tariff categories, load research shall be made an integral part of the operations of the DISCOMs and systematic load research exercises shall be initiated.

2) Allocation of Energy Costs: Energy related costs of Distribution functions shall be allocated to consumer categories on the basis of ratio of electricity consumption of each consumer category to the total electricity consumption under the purview of the Distribution Licensee. Energy related costs of Power purchase shall be allocated to various tariff categories on the basis of block approach on merit order dispatch and incremental principle, where each tariff category shall be allocated the incremental (energy related) power purchase cost on the basis of their respective share in the incremental power purchase. For the purpose of operationalizing the block approach and incremental principle, the Commission shall identify and notify a suitable year as the "base year".

3) Allocation of Customer Costs: Customer related costs shall be allocated to consumer categories on the basis of the ratio of number of consumers in each category to total number of consumers under the purview of the Distribution Licensee.

d. Summation of allocated Demand cost, Energy cost and Customer cost across functions shall be total Cost to serve for respective consumer categories. Cost to serve reduced by revenue from a consumer category shall give total subsidy for that category. Total subsidy for a consumer category reduced by Government subsidy, if any, shall be cross-subsidy for that consumer category.

e. The consumers below poverty line who consume power below a specified level, say 30 units per month, shall receive a special support through cross subsidy.

f. Cross-subsidy surcharge and additional surcharge in Open Access

1. The amount received or to be received by the licensee on account of cross-subsidy surcharge and additional surcharge, as approved by the Commission from time to time in accordance with the Regulations specified by the Commission, shall be shown separately against the consumer category that is permitted open access as per the phasing plan.

2. Cross-subsidy surcharge and additional surcharge shall be shown as revenue from the tariff from the consumer categories who have been permitted open access and such amount shall be utilized to meet the cross-subsidy requirements of subsidized categories and fixed costs of the Distribution Licensee arising out of his obligation to supply. Provided that the licensee shall provide such details in its annual filings.

g. Tariff Design

1) The Commission shall be guided by the objective that the tariff progressively reflects the efficient and prudent cost of supply of electricity.

2) After the costs have been allocated based on the method specified in clauses I and (d) above, tariffs for different consumer categories shall be designed with due regard to factors provided under section 62(3) of the Act.

3) The time of day tariff would be structured across three time slabs to denote normal, peak and off-peak periods. The time-periods would vary according to different seasons of the year i.e. summer, winter and the monsoon season. The peak tariff would be 10%-20% higher than the normal tariff and the off-peak tariff would be priced 5%-10% lower than the normal tariff.

4) Time of Day tariff may be introduced in a phased manner, wherein in phase 1 it would be for HT Consumers, in phase 2 – for LT consumers consuming more than 25 KW and in phase 3 for LT consumers consuming more than 10 KW."

In view of the above, the tariff needs to be designed in such a manner that cross subsidy among different categories of consumers is progressively brought within ±20% of the average cost of supply and that even for BPL category consumers, tariff rates are close to 50% of the average cost of supply. The Commission has taken a considerate view in this regard balancing the interest of the utility and the consumers.

Accordingly, the Commission has designed the tariff for different categories of consumers as brought out in the subsequent sections.

8.3. Additional Claim

Petitioner's Submission:

The Commission may allow the provision of unpaid security deposit of Rs. 14.01 crores to be included in the total revenue gap to be recovered in the FY 2017-18.

Commission's Analysis:

The Commission observes that it has already provided for the interest on consumer deposits to be paid in the respective years but the Petitioner is yet to pay a substantial amount of interest on the consumer security deposits.

Hence, the Commission is not factoring any provision for unpaid Interest on the Consumer Security Deposit for the calculation of the revenue gap for the FY 2017-18. The Commission will consider the interest paid on consumer security deposits for the previous years as and when the same is paid to consumers on actual basis as per the audited accounts.

The Commission directs the Petitioner to clear the entire backlog of Interest on Consumer Security Deposit within the FY 2017-18 and report the compliance to the Commission.

8.4. Tariff Proposal

Petitioner's Submission:

The Petitioner has neither proposed any hike in the Retail Tariff nor has sought any change in the approved schedule of Miscellaneous Charges. However, the Petitioner has sought the following changes in applicability of the various consumer categories as follows:

i. Separate treatment for Educational Institutions under HT category to be considered in line with the treatment provided in the LT category in the last Tariff Order to provide benefit to a larger section of the public (students). This would result in lower tariffs than the earlier charged commercial tariff.

ii. It is noted that the certificate from the Department of Tourism by Hotels to claim concessional tariff is delayed sometimes resulting in confusion on the applicability of tariff. It is requested for determination of the category of tariff for the Hotel Industry based on the certificate issued for two consecutive years. Also, the timeline for submission of the Certificate from the Department of Tourism to avail the concessional tariff shall be within four months of issue of the Tariff Order. The concessional tariff will be applicable from the month of receipt of the certificate or the following month.

iii. It is submitted that a particular consumer of Goa is getting power supplied from MSEDCL due to lack of distribution infrastructure of EDG in that area. In the said case, MSEDCL issues the bill to the Department and the Department issues the same bill to the consumer in addition to other services such as attending any fuse off calls to the consumer, etc. Therefore, an approval is sought from JERC for recovery of Service charges against the billing, collection, etc. provided by the Department which will be equivalent to per unit charge of Employee cost and Administrative & General Cost as proposed below in addition to the power purchase cost:

Particulars	Units	Amount
Employee Cost for FY 2017-18	Rs. Crs	254.24
A&G cost for FY 2017-18	Rs. Crs	10.12
Total O&M Cost excluding R&M	Rs. Crs	264.36
Approved Sales for FY 2017-18	Mus	3,494.72
Service Charge to be applicable	Rs./kWh	0.76

* - R&M expenses not claimed as no distribution infrastructure of EDG exist

Commission's Analysis:

The Commission has determined the retail tariff for the FY 2017-18 in view of the guiding principles as stated in the Electricity Act, 2003 and the Tariff Policy, 2016, and the suggestions/objections of the stakeholders in this regard and the Petitioner's submission are discussed in the previous Chapters.

The relevant abstract from Tariff Policy, 2016 is as under:

"8.3. Tariff design: Linkage of tariffs to cost of service

It has been widely recognized that rational and economic pricing of electricity can be one of the major tools for energy conservation and sustainable use of ground water resources.

In terms of the Section 61(g) of the Act, the Appropriate Commission shall be guided by the objective that the tariff progressively reflects the efficient and prudent cost of supply of electricity.

The State Governments can give subsidy to the extent they consider appropriate as per the provisions of section 65 of the Act. Direct subsidy is a better way to support the poorer categories of consumers than the mechanism of cross subsidizing the tariff across the board. Subsidies should be targeted effectively and in transparent manner. As a substitute of cross subsidies, the State Government has the option of raising resources through mechanism of electricity duty and giving direct subsidies to only needy consumers. This is a better way of targeting subsidies effectively.

Accordingly, the following principles would be adopted:

1. Consumers below poverty line who consume below a specified level, as prescribed in the National Electricity Policy may receive a special support through cross subsidy. Tariffs for such designated group of consumers will be at least 50% of the average cost of supply.

2. For achieving the objective that the tariff progressively reflects the cost of supply of electricity, the Appropriate Commission would notify a roadmap such that tariffs are brought within ±20% of the average cost of supply. The road map would also have intermediate milestones, based on the approach of a gradual reduction in cross subsidy.

3. While fixing tariff for agricultural use, the imperatives of the need of using ground water resources in a sustainable manner would also need to be kept in mind in addition to the average cost of supply. Tariff for agricultural use may be set at different levels for different parts of a state depending on the condition of the ground water table to prevent excessive depletion of ground water. Section 62 (3) of the Act provides that geographical position of any area could be one of the criteria for tariff differentiation. A higher level of subsidy could be considered to support poorer farmers of the region where adverse ground water table condition requires larger quantity of electricity for irrigation purposes subject to suitable restrictions to ensure maintenance of ground water levels and sustainable ground water usage.

4. Extent of subsidy for different categories of consumers can be decided by the State Government keeping in view various relevant aspects. But provision of free electricity is not desirable as it encourages wasteful consumption of electricity. Besides in most cases, lowering of water table in turn creating avoidable problem of water shortage for irrigation and drinking water for later generations. It is also likely to lead to rapid rise in demand of electricity putting severe strain on the distribution network thus adversely affecting the quality of supply of power. Therefore, it is necessary that reasonable level of user charges is levied. The subsidized rates of electricity should be permitted only up to a pre-identified level of consumption beyond which tariffs reflecting efficient cost of service should be charged from consumers. If the State Government wants to reimburse even part of this cost of electricity to poor category of consumers the amount can be paid in cash or any other suitable way. Use of prepaid meters can also facilitate this transfer of subsidy to such consumers.

5. Metering of supply to agricultural/rural consumers can be achieved in a consumer friendly way and in effective manner by management of local distribution in rural areas through commercial arrangement with franchisees with involvement of panchayat institutions, user associations, cooperative societies etc. Use of smart meters may be encouraged as a cost effective option for metering in cases of "limited use consumers" who are eligible for subsidized electricity."

Further, keeping in view the relevant directions given by the Hon'ble APTEL in the judgment in O.P. No. 1 of 2011 as mentioned below, the Commission has taken a considered view in this regard.

Directions given by the Hon'ble APTEL in the Judgment in O.P. No. 1 of 2011 are as follows:

1) ....
2) ....
3) ....

Quote

4) In determination of ARR/tariff, the revenue gaps ought not to be left and Regulatory Asset should not be created as a matter of course except where it is justifiable, in accordance with the Tariff Policy and the Regulations. The recovery of the Regulatory Asset should be time bound and within a period not exceeding seven years at the most and preferably within Control Period. Carrying cost of the Regulatory Asset should be allowed to the utilities in the ARR of the year in which the Regulatory Assets are created to avoid problem of cash flow to the distribution licensee.

5) Truing up should be carried out regularly and preferably every year. For example, truing up for the financial year 2009-10 should be carried out along with the ARR and tariff determination for the financial year 2011-12.

6) Fuel and Power Purchase cost is a major expense of the distribution Company which is uncontrollable. Every State Commission must have in place a mechanism for Fuel and Power Purchase cost in terms of Section 62 (4) of the Act. The Fuel and Power Purchase cost adjustment should preferably be on monthly basis on the lines of the Central Commission's Regulations for the generating companies but in no case exceeding a quarter. Any State Commission which does not already have such formula/mechanism in place must within 6 months of the date of this order must put in place such formula/mechanism."

The Petitioner has proposed certain changes in the Tariff Schedule which have been discussed in detail in the subsequent paras:

1. Modification in respect of applicability of various categories to include the following:

i. Change in Applicability of Educational Institutions under HT Category

The Commission would like to highlight that these consumers already fall under the HT-Industrial category whose tariff is considerably lower than the tariff of HT-Commercial category. The Commission is of the view that there is no further requirement of reduction in Tariff for these consumers.

ii. Change in Applicability of LT Hotel Industries

The Commission is of the view that fixing of the validity of the certificate is in the purview of the Department of Tourism which is based on prescribed guidelines. However, the Commission does not find it appropriate to restrict the benefits of this tariff category. The Commission is of the view that the consumers should be eligible for the benefit of tariff category from the start of applicability of the certificate issued by the Department of Tourism and hence the present applicability clause needs a review.

Thus, the Commission modifies the applicability clause of LT Mixed – Hotel Industries as follows:

"This schedule shall apply to Hotels/restaurants with lodging and boarding facilities.

Hotel Industry consumers intending to avail the facility of this tariff should produce a certificate from the Tourism Department stating that the intending applicant is registered under Goa Registration of Tourist Trade Act, 1982 and in the Hotel business on a regular basis. ***On receipt of the certificate, such tariff shall be made effective from the date of original validity of the certificate****. In case of failure to produce the certificate, the same shall be considered under Commercial category."*

iii. Recovery of service charges

The Commission is of the view that schedule of miscellaneous charges have already been approved by the Commission for various services. Further, there is no provision of determination of charges for consumers being served by other distribution utilities in the present regulations. The Petitioner is directed to submit a detailed proposal along with citations of relevant regulations/judgements for determination of charges along with the next Tariff Proposal.

8.5 Revenue Gap/Surplus for the FY 2017-18

Petitioner's Submission:

The cumulative revenue gap till the FY 2017-18 is proposed to be met entirely by budgetary support by the Government of Goa of Rs. 149 crores.

Commission's Analysis:

In the Budgetary Support letter No. 1/14/2016-Fin(Bud) issued on 23rd December, 2016, it is stated that:

"*I am to state that the Government of Goa has decided to provide the required budgetary support to meet the total revenue gap as may be approved by the Hon'ble Commission during the process of finalization of Tariff Petition for the FY 2017-18".*

The Commission observes that the Government has not restricted the support to Rs. 149 crore but to the gap as determined by the Commission. Further, the Petitioner has also not sought any tariff hike. Accordingly, the Commission approves the entire revenue gap of

Rs. 281.65 crore as determined by the Commission in section 5.3 of this Order to be met by the budgetary support by the Government of Goa.

Accordingly, the Commission finds it appropriate to continue with the existing tariff structure in the FY 2017-18 as shown in the following Table:

Table 8.1: Tariff Approved by the Commission for the FY 2017-18

Category	Existing Tariff		Approved Tariff	
	Fixed Charges	Energy Charges (Paisa/ kWh)	Fixed Charges	Energy Charges (Paisa/ kWh)
1	2	3	4	5
DOMESTIC				
Low Tension-D/LT-D				
0-100 units	Single Phase Rs. 20/ Connection/Month Three Phase Rs. 45/ Connection/Month	130	Single Phase Rs. 20/Connection/Month Three Phase Rs. 45/Connection/Month	130
101-200 units		190		190
201 to 300 units		240		240
301 to 400 units		310		310
Above 400 units		360		360
Low Tension-LIG/LT-LIG	**Rs. 30/Connection/Month**		**Rs. 30/Connection/Month**	
High Tension-D/HT-D				
All Units	Rs. 150/kVA/Month	440	Rs. 150/kVA/Month	440
COMMERCIAL				
Low Tension-C/LT-C				
0-100 units	0-20 kW - Rs. 50/Conn/Month Above 20kW-90 kW Rs. 50/Conn/month + additional Rs. 55/kW for every kW increase above 20 kW	325	0-20 kW - Rs. 50/Conn/Month Above 20kW-90 kW Rs. 50/Conn/month + additional Rs. 55/kW for every kW increase above 20 kW	325
101-200 units		390		390
201 units-400 units		430		430
Above 400 units		470		470
High Tension-C/HT-C				
All Units	Rs. 250/kVA/month	550	Rs. 250/kVA/month	550
Industrial				
Low Tension-I/LT-I				
0-500 units	Rs. 30/HP/Month	310	Rs. 30/HP/Month	310
Above 500 units	Rs. 30/HP/Month	350	Rs. 30/HP/Month	350
Low Tension-Mixed/LT-P (Hotel Industries)				
All Units	Rs. 30/kW/Month	450	Rs. 30/kW/Month	450
High Tension-I/HT-I				
Connected at 11/33 kV	Rs. 250/kVA/Month	430	Rs. 250/kVA/Month	430
Connected at 110 kV	Rs. 250/kVA/Month	420	Rs. 250/kVA/Month	420
High Tension-Ferro/SM/PI/SR				
All Units	Rs. 250/kVA/Month	430	Rs. 250/kVA/Month	430
Agricultural				
Low Tension-AG/LT-AGP (Pump Sets/Irrigation)				
All Units	Rs. 12/HP/Month	130	Rs. 12/HP/Month	130
Low Tension-AG/LT-AGA (Allied Activities)				
All Units	Rs. 20/HP/Month	160	Rs. 20/HP/Month	160

1	2	3	4	5
High Tension-AG/HT-AGP (Pump Sets/Irrigation)				
All Units	Rs. 35/kVA/Month	140	Rs. 35/kVA/Month	140
High Tension-AG/HT-AG (Allied Activities)				
All Units	Rs. 50/kVA/Month	180	Rs. 50/kVA/Month	180
Military Engineering Services/Defense Establishments				
All Units	Rs. 175/kVA/Month	500	Rs. 175/kVA/Month	500
Public Lighting				
All Units	Rs. 40/kW/Month	390	Rs. 40/kW/Month	390
Hoardings/Signboards				
All Units	Rs. 60/kVA/Month	990	Rs. 60/kVA/Month	990
Temporary Supply				
LT Temporary Domestic	Rs. 60 per kW per month or part thereof subject to a minimum of Rs. 300/- per connection per month or part thereof	700	Rs. 60 per kW per month or part thereof subject to a minimum of Rs. 300/- per connection per month or part thereof	700
LT Temporary Commercial	Rs. 100 per kVA per month or part thereof subject to a minimum of Rs. 500/- per connection per month or part thereof	990	Rs. 100 per kVA per month or part thereof subject to a minimum of Rs. 500/- per connection per month or part thereof	990
HT Temporary	Rs. 120 per kVA per month or part thereof	990	Rs. 120 per kVA per month or part thereof	990
Single Point Supply				
Residential Complexes	Rs. 100 per kVA per month or part thereof	310	Rs. 100 per kVA per month or part thereof	310
Commercial Complexes	Rs. 200 per kVA per month or part thereof	430	Rs. 200 per kVA per month or part thereof	430
Industrial Complexes	Rs. 200 per kVA per month or part thereof	390	Rs. 200 per kVA per month or part thereof	390

The revenue at approved tariff is tabulated below:

Table 8.2: Revenue at Tariff Approved by the Commission for FY 2017-18

Category	Sales	Revenue at Approved Tariff (Rs. Crores)			ABR*	K Factor
		Fixed	Energy	Total		
1	2	3	4	5	6	7
DOMESTIC						
Low Tension-D/LT-D						
0-100 units	88.44	4.85	11.50	16.35	1.85	0.41
101-200 units	204.27	3.44	38.81	42.25	2.07	0.46
201 to 300 units	151.88	3.06	36.45	39.52	2.60	0.58
301 to 400 units	124.43	2.51	38.57	41.09	3.30	0.74
Above 400 units	360.88	2.27	129.92	132.19	3.66	0.82
Low Tension-LIG/LT-LIG	**1.10**	**0.11**	**0.00**	**0.11**	**1.00**	
High Tension-D/HT-D						
All Units	0.27	0.03	0.12	0.15	5.70	1.27
Sub-total Domestic–Overall	**931.27**	**16.29**	**255.37**	**271.66**	**2.92**	

1	2	3	4	5	6	7
COMMERCIAL						
Low Tension-C/LT-C						
0-100 units	24.06	1.28	7.82	9.09	3.78	0.84
101-200 units	16.04	0.85	6.26	7.11	4.43	0.99
201 units-400 units	194.27	5.76	83.54	89.30	4.60	1.03
Above 400 units	83.01	7.97	39.01	46.99	5.66	1.27
High Tension-C/HT-C						
All Units	76.10	12.77	41.85	54.62	7.18	1.60
Sub-total Commercial–Overall	**393.47**	**28.63**	**178.48**	**207.11**	**5.26**	
INDUSTRIAL						
Low Tension-I/LT-I						
0-500 units	62.28	2.41	19.31	21.72	3.49	0.78
Above 500 units	68.97	1.75	24.14	25.89	3.75	0.84
Low Tension-Mixed/LT-P (Hotel Industries)						
All Units	4.83	0.15	2.17	2.33	4.82	1.08
High Tension-I/HT-I						
Connected at 11/33 kV	1203.59	103.90	517.55	621.45	5.16	1.15
Connected at 110 kV	142.23	21.27	59.74	81.00	5.70	1.27
High Tension-Ferro/SM/PI/SR						
All Units	571.84	34.43	245.89	280.32	4.90	1.10
Sub-total Industrial–Overall	**2053.75**	**163.91**	**868.80**	**1032.70**	**5.03**	
AGRICULTURAL						
Low Tension-AG/LT-AGP (Pump sets/Irritation)						
All Units	17.90	0.37	2.33	2.70	1.51	
Low Tension-AG/LT-AGA (Allied)						
All Units	5.97	0.21	0.95	1.16	1.95	
High Tension-AG/HT-AGP (Pump sets/Irritation)						
All Units	4.56	0.26	0.64	0.90	1.98	
High Tension-AG/HT-AGA (Allied)						
All Units	1.52	0.13	0.27	0.40	2.63	
Sub-total Agricultural–Overall	**29.95**	**0.97**	**4.19**	**5.16**	**1.72**	
MILITARY ENGINEERING SERVICES/DEFENSE ESTABLISHMENTS						
All Units	26.89	1.49	13.44	14.93	5.55	1.24
Sub-total MES/DE–Overall	**26.89**	**1.49**	**13.44**	**14.93**	**5.55**	
PUBLIC LIGHTING						
All Units	36.95	0.46	14.41	14.87	4.02	0.90
Sub-total Public Lighting-Overall	**36.95**	**0.46**	**14.41**	**14.87**	**4.02**	
HOARDINGS/SIGNBOARDS						
All Units	0.35	0.00	0.35	0.35	9.97	2.23
Sub-total Hoardings/Signboards-Overall	**0.35**	**0.00**	**0.35**	**0.35**	**9.97**	
TEMPORARY SUPPLY						
LT Temporary Domestic	17.47	0.06	12.23	12.29	7.03	1.57
LT Temporary Commercial	4.61	0.03	4.57	4.60	9.97	2.23
Sub-total Temporary -Overall	**22.08**	**0.09**	**16.80**	**16.89**	**7.65**	
Overall LT Sales	*1467.71*	*37.56*	*472.33*	*509.89*	*3.47*	
Overall HT Sales	*2027.00*	*174.27*	*879.50*	*1053.77*	*5.20*	
Total Sales	**3494.71**	**211.84**	**1351.83**	**1563.67**	**4.47**	

**** ABR means the average billing rate for the category i.e. revenue/sales and revenue is inclusive of both the fixed charges and the variable charges.***

Accordingly, the Commission approves NIL revenue gap for the FY 2017-18 as shown in the Table below:

Table 8.3: Revenue Gap/(Surplus)approved by the Commission for the FY 2017-18 (Rs. crore)

S. No.	Particulars	Approved in the Tariff Order Dated 18thApril, 2016	Petitioner's submission (ARR)	Approved by the Commission (ARR)
1	Net Revenue Requirement	1845.32	1845.32	1845.32
2	Revenue from Retail Sales at Existing Tariff	-	1719.91	1563.67
3	**Net Gap/(Surplus)**	**-**	**125.41**	**281.65**
4	Gap/(Surplus) for the previous year	-	0.00	0.00
5	**Total Gap/(Surplus)**	**-**	**125.41**	**281.65**
6	Budgetary Support from Government of Goa	-	125.41	281.65
7	**Balance Gap**	**-**	**-**	**-**

Chapter 9. Open Access Charges for FY 2017-18

9.1 Allocation Matrix - Allocation of ARR into Wheeling and Retail Supply of Electricity

Petitioner's Submission:

The allocation of ARR into wheeling and retail supply of electricity based on the Business Plan submission for the FY 2017-18 is as below:

Table 9.1: Allocation of ARR between Wheeling and Retail Supply as submitted by the Petitioner (Rs. crore)

Cost Elements	Allocation (%)		FY 2017-18 (Rs. Crs)		
	Wheeling Business	Retail Supply Business	Wheeling Business	Retail Supply Business	Total
Power Purchase Cost	0%	100%	0.00	1330.98	1330.98
Provision for RPO Compliance	0%	100%	0.00	9.38	9.38
Employee Expenses	70%	30%	177.97	76.27	254.24
Administrative and General Expenses	90%	10%	9.11	1.01	10.12
Repairs and Maintenance Expenses	50%	50%	15.29	15.29	30.57
Depreciation	90%	10%	57.74	6.42	64.16
Interest on Loan	90%	10%	66.64	7.40	74.04
Interest on Working Capital	22%	78%	2.18	7.72	9.90
Return on Equity	90%	10%	52.50	5.83	58.33
Provision for DSM Expenses	0%	100%	0.00	3.41	3.41
Interest on Security Deposit	0%	100%	0.00	6.93	6.93
Total Revenue Requirement			**381.42**	**1470.64**	**1852.06**
Non-Tariff Income	0%	100%	0.00	6.74	6.74
Net Revenue Requirement			**381.42**	**1463.90**	**1845.32**

Commission's Analysis:

The Commission feels that there has to be proper bifurcation of all expenses between the functions of wheeling business (wire business) and retail supply business. The Commission has considered the allocation matrix for bifurcation of wheeling and retail ARR as approved in the Tariff Order for FY 2016-17 dated 18thApril, 2016. The allocation between wheeling and retail supply business for FY 2017-18 as per the ARR approved in this Order is provided in the following Table:

Table 9.2: Allocation of ARR between Wheeling and Retail Supply as approved by the Commission (Rs. crore)

Sr. No.	Particulars	Allocation (%)		FY 2017-18		
		Wheeling	Supply	Wheeling	Supply	Total
1	2	3	4	5	6	7
1	Cost of power purchase for full year	*0%*	*100%*	-	1,330.98	1,330.98
2	Provision for RPO Compliance	*0%*	*100%*	-	9.38	9.38
3	Employee costs	*70%*	*30%*	177.97	76.27	254.24

1	2	3	4	5	6	7
4	Repair and Maintenance Expenses	*50%*	*50%*	15.28	15.28	30.57
5	Administration and General Expenses	*90%*	*10%*	9.11	1.01	10.12
6	Depreciation	*90%*	*10%*	57.75	6.42	64.16
7	Interest on Loan	*90%*	*10%*	66.63	7.40	74.04
8	Interest on Consumer Security Deposit	*0%*	*100%*	-	6.93	6.93
9	Interest on Working Capital	*22%*	*78%*	2.18	7.72	9.90
10	Return on Equity	*90%*	*10%*	52.50	5.83	58.33
11	Provision for Bad Debit	*0%*	*100%*	-	-	-
12	Provision for DSM Expenses	*0%*	*100%*	-	3.41	3.41
13	**Total Revenue Requirement**			**381.41**	**1,470.64**	**1,852.06**
14	Less: Non-Tariff Income	*0%*	*100%*	-	6.74	6.74
15	**Net Revenue Requirement**			**381.41**	**1,463.90**	**1,845.32**

The Commission, considering the fact that the expenses of the licensee are consolidated, has considered "Nil" transmission charges for the open access consumers in the State.

9.2. Voltage Wise Wheeling Charges

Petitioner's Submission:

The Commission is requested to approve wheeling charge for HT/EHT category as Rs. 0.99/kWh and for LT category as Rs. 1.03/kWh for the FY 2017-18.

Commission's Analysis:

The Commission opines that in the absence of the details of bifurcation of assets and expenses, it has decided to continue the determination of wheeling charges for HT/EHT and LT level. Accordingly, the total approved wheeling ARR is bifurcated between HT/EHT level and LT level based on the sales and losses. The losses at the HT and EHT level are considered at 3.636% for the FY 2017-18 as per the last Tariff Order approved for FY 2016-17 dated 18th April, 2016.

To arrive at the network usage, the input energy at each level has been arrived as shown in the Table below:

Table 9.3: Determination of input energy for network usage percentage

Sr. No.	Particulars	UoM	Amount
1	Sales at 11 kV and above	MUs	2,027.00
2	Losses for HT and EHT	%	3.64%
3	Input for HT and EHT (1+2)	MUs	2,103.57
4	Total Input	MUs	3,838.32
5	Projection of HT/EHT network usage	%	54.80%
6	Balance Proportion of LT network usage	%	45.20%

Table 9.4: Wheeling Charges approved by the Commission for the FY 2017-18

Particulars	UoM	Formulae	Amount
1	2	3	4
Wheeling Cost	Rs. crore	A	381.41
Wheeling Cost at EHT and HT	Rs. crore	B=A*54.80%	209.03
Energy Input for HT and EHT	MUs	C	2,103.57
Wheeling Charge at EHT and HT level	**Rs. per Unit**	**D=B/C*10**	**0.99**
Wheeling Cost at LT	Rs. crore	E=A*45.20%	172.38
Energy Input at LT	MUs	F	1,671.61
Wheeling Charge at LT level	**Rs. per Unit**	**G=E/F*10**	**1.03**

9.3. Cross-Subsidy Surcharge

Petitioner's Submission:

The Commission is requested to approve the cross subsidy surcharge of Rs. 0.98/kWh for HT and EHT consumers in the FY 2017-18.

Commission's Analysis:

The Government of India has notified the National Tariff Policy, 2016 on 28th January, 2016. The Cross subsidy surcharge is based on the following formula given in the Tariff Policy, 2016 as below:

$S=T-[C/(1-L/100) +D+R]$

Where,

S is the surcharge

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligations;

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligations;

D is the aggregate of transmission, distribution and wheeling charges applicable to the relevant voltage level;

L is the aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level;

R is the per unit cost of carrying regulatory assets.

The cross subsidy surcharge shall be taken as 'NIL' if works out to be negative.

The Commission has considered Large Industrial Supply for calculation of cross-subsidy surcharge. The Computation of cross subsidy surcharge for EHT/HT consumers getting supply above 11 KV voltage level is given in the below Table:

Table 9.5: Calculation of "T" (Tariff payable) approved by the Commission for the FY 2017-18

Particular	Sale (Mus)	Revenue from approved tariff (Rs. crore)	Average Tariff (Rs./kWh)
T by HT/EHT Categories	2,027.00	1,053.77	5.20

Table 9.6: Calculation of "C" (W.Avg Cost of Power Purchase) approved by the Commission for the FY 2017-18

Particular	Energy Procured (MU)	Average Rate (Rs./kwh)	Total Power Purchase Cost (Rs. Crore)
Power Purchase at generator end excluding open access purchase	3,998.32	1,330.98	3.33
Less: Interstate Loss	160.00		
C(W.Avg Cost of Power Purchase)	3,838.32	1,330.98	3.47

Table 9.7: Cross-Subsidy Surcharge approved by the Commission for the FY 2017-18

Cross Subsidy Surcharge	UoM	HT & EHT Industry
T (Tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation)	Rs. Per kwh	5.20
C (per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligations)	Rs. Per kwh	3.47
D (aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level)	Rs. Per kwh	0.99
L (aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level)	%	3.64
R (per unit cost of carrying regulatory assets)	Rs. Per kwh	0
Surcharge	**Rs. Per kwh**	**0.61**

Chapter 10. Tariff Schedule

10.1. Tariff Schedule

Category	Fixed Charges	Energy Charges (Paisa/kWh)
1	2	3
DOMESTIC		
Low Tension-D/LT-D		
0-100 units	Single Phase Rs. 20/Connection/Month Three Phase Rs. 45/Connection/Month	130
101-200 units		190
201 to 300 units		240
301 to 400 units		310
Above 400 units		360
Low Tension-LIG/LT-LIG	**Rs. 30/Connection/Month**	
High Tension-D/HT-D		
All Units	Rs. 150/kVA/Month	440
COMMERCIAL		
Low Tension-C/LT-C		
0-100 units	0-20 kW - Rs. 50/Conn/Month Above 20kW-90 kW Rs. 50/Conn/month + additional Rs. 55/kW for every kW increase above 20 kW	325
101-200 units		390
201 units-400 units		430
Above 400 units		470
High Tension-C/HT-C		
All Units	Rs. 250/kVA/month	550
Industrial		
Low Tension-I/LT-I		
0-500 units	Rs. 30/HP/Month	310
Above 500 units	Rs. 30/HP/Month	350
Low Tension-Mixed/LT-P (Hotel Industries)		
All Units	Rs. 30/kW/Month	450
High Tension-I/HT-I		
Connected at 11/33 kV	Rs. 250/kVA/Month	430
Connected at 110 kV	Rs. 250/kVA/Month	420
High Tension-Ferro/SM/PI/SR		
All Units	Rs. 250/kVA/Month	430
Agricultural		
Low Tension-AG/LT-AGP (Pump Sets/Irrigation)		
All Units	Rs. 12/HP/Month	130
Low Tension-AG/LT-AGA (Allied Activities)		
All Units	Rs. 20/HP/Month	160
High Tension-AG/HT-AGP (Pump Sets/Irrigation)		
All Units	Rs. 35/kVA/Month	140
High Tension-AG/HT-AG (Allied Activities)		
All Units	Rs. 50/kVA/Month	180
Military Engineering Services/Defense Establishments		
All Units	Rs. 175/kVA/Month	500
Public Lighting		
All Units	Rs. 40/kW/Month	390
Hoardings/Signboards		
All Units	Rs. 60/kVA/Month	990

1	2	3
Temporary Supply		
LT Temporary Domestic	Rs. 60 per kW per month or part thereof subject to a minimum of Rs. 300/- per connection per month or part thereof	700
LT Temporary Commercial	Rs. 100 per kVA per month or part thereof subject to a minimum of Rs. 500/- per connection per month or part thereof	990
HT Temporary	Rs. 120 per kVA per month or part thereof	990
Single Point Supply		
Residential Complexes	Rs. 100 per kVA per month or part thereof	310
Commercial Complexes	Rs. 200 per kVA per month or part thereof	430
Industrial Complexes	Rs. 200 per kVA per month or part thereof	390

10.2. Applicability

Low Tension Category-Applicable to Power Supply of Voltages at 230V and 440V Voltages when the Sanctioned Load is below 100 KVA/90 KW/120 HP and power is supplied at single/three phase.

High Tension/Extra High Tension Category-Applicable to Power Supply of Voltages at 11KV/33KV/110KV i.e. High/Extra High Voltages when the Contracted Demand is above 100 KVA/90 KW/120 HP and power is supplied at three phase.

Category	Applicability	Point of Supply/Notes
1	2	3
1. LT Domestic	This schedule shall apply to private residential houses, government residential quarters, charitable institutions or educational institutions aided by State/ /Central Board, colleges aided by Goa University and religious institutions etc. for consumption of energy using normal domestic appliances. *The Professionals i.e. individuals engaged in those activities involving services based on professional skills, like Lawyers, Doctors {only those using OPD/consultancy}, Professional Engineers, Chartered Accountants, etc. may utilize the domestic connection at their residence for carrying out their professional work in the nature of consultancy without attracting commercial tariff for the electricity consumed, provided the area used for professional activity does not exceed the area permitted to be used for such activity in residential area as per the prevailing laws/notifications issued by Town and Country Planning Department/other concerned departments of Government of Goa in this regard.* *The Petitioner will be give due publicity in three leading newspapers within 7 working*	a. For the premises or flats which are closed or locked for a continuous period of more than three months and having sanctioned/connected load more than 10 kW, the monthly minimum charges would be Rs. 1000/-.

1	2	3
	days of issuance of this order with exact applicability criteria citing reference to relevant orders/acts/notifications issued by concerned department of the Government of Goa under intimation to this Commission and shall repeat this exercise whenever there is any change in the applicable law of the land	
2. HT Domestic	This schedule shall apply to individual residential consumers of Bungalows, Villas, Cottages, etc. using normal domestic appliances and whose contract demand falls within the threshold limit of HT category	
3. Low Income Group	This schedule shall apply to consumers of Low Income Group who have a sanctioned load of up to 0.1 kW (primarily 2 points with 2 x 40 watts) and who consume up to 30 units per month only	The applicability of the Low Income Group category will be assessed at the end of each month and in case the consumption exceeds 30 units per month, the entire consumption would be billed at the rate of LTD-/Domestic for that particular month.
4. Commercial – LT and HT	This tariff is applicable to any activity not specifically covered in any other consumer categories, or although covered in another activity, the use is made for a commercial category. It would include electricity used in all non-residential, non-industrial premises and/or commercial premises for commercial consumption meant for operating various appliances. It would include the following categories but not limited to: • Houses with rent back facilities • Government hospitals • Professionals not covered in domestic category • Commercial Complexes and Business premises, including Shopping malls/ /show rooms, offices/shops; • Combined lighting and power services for Entertainment including film studios, cinemas and theatres, including multi-plexes, Race Course, Meeting/Town Halls, Clubs, all types of Guest houses; • Offices including Government Offices, Commercial Establishments; • Marriage Halls (including halls attached to religious places), Hotels/Restaurants (without boarding facilities), Ice-cream parlours, Bakeries, Coffee Shops, private educational institutions, private hospi-tals, private messes, Internet/Cyber Cafes, Mobile Towers, Microwave Towers, Satellite Antennas used for telecom-munication activity, Telephone Booths, Fax/Xerox Shops, X-ray installations, bars and cold drink houses, Tailoring Shops, Computer Training Schools, Typing Institutes, Photo Laboratories, Photo Studios, Laundries, Beauty Parlours and Saloons, dry cleaners etc.	Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.

1	2	3
	• Automobile and any other type of repair centers, Retail Gas Filling stations, Petrol Pumps and Service Stations including Garages, Tyre Vulcanizing units, Battery Charging Units, Tyre vulcanizing centres etc.; • Banks, Telephone Exchanges, TV Station, Micro Wave Stations, All India Radio (AIR) Stations, ATM Centres etc.; • For common facilities, like Water Pumping/Street Lighting/Lifts/Fire Fighting Pumps/Premises (Security) Lighting, etc. in Commercial Complexes; • Sports Clubs, Health Clubs, Gymnasium, Swimming Pools; • Research and Development units situated outside Industrial premises; • Airports, Railways, Railway Stations, Bus stands of KTC etc.	
5. LT Industrial	This tariff shall apply to consumers as in industrial units engaged in industrial activities, manufacturing process etc. It would include the following categories but not limited to: • Flour Mills, wet grinding, Dal Mills, Rice Mills, Poha Mills, Masala Mills, Saw Mills, Power looms including other allied activities like Warping, Doubling, Twisting, etc. • Ice Factories, Ice Cream Manufacturing units/Plants, Dairy Testing Process, Milk Dairies, Milk Processing/Chilling Plants (Dairy) etc; • Engineering workshops, Engineering Goods Manufacturing units, Printing Presses, Transformer repairing Workshops, Tyre retreading units, Motive Power Loads etc.; • Mining, Quarry and Stone Crushing units etc.; • Garment Manufacturing units, • LPG/CNG Bottling plants etc.; • Sewage Water Treatment Plants/Common Effluent Treatment Plants owned, operated and managed by Industrial Associations and situated within industrial area. • Pumping of water for public water supply, Sewage Treatment Plants, activities related with public water Supply Schemes and Sewage Pumping Stations. • Use of electricity/power supply for activities/facilities exclusively meant for employees of the industry within the premises of the Industry. • IT Industry, IT parks etc.	The above mentioned tariff is based on the supply being given through a single delivery and metering point and at a single voltage.
6. LT Mixed– Hotel Industries	This schedule shall apply to Hotels/ restaurants with lodging and boarding facilities.	Hotel Industry consumers intending to avail the facility of this tariff should produce a certificate from the Tourism Department stating that the intending applicant is registered under Goa

1	2	3
		Registration of Tourist Trade Act, 1982 and in the Hotel business on a regular basis. On receipt of the certificate, such tariff shall be made effective from the date of original validity of the certificate. In case of failure to produce the certificate, the same shall be considered under Commercial category.
7. HT Industrial	This schedule shall apply to consumers taking electricity supply for Industrial purpose. It shall also include the following categories: • Bulk Supply of power at 11 KV, 33 kV/110 KV and above for industries, factories and other industrial purposes • Bulk supply of power at 11 KV and above for educational institutions owned or aided by Government, non-industrial establishments • Industrial units engaged in Ice Manufacturing Units; • Hotels with lodging and boarding facilities etc. • Use of electricity/power supply by an establishment such as IT Industries, IT Parks, IT Units • Pumping of water, public water supply, public water treatment plant, activities related with Supply Schemes and Sewage Treatment Plants, Sewage Pumping Stations etc.	
8. HT Ferro Metallurgical / /Steel Rolling/Steel Melting/Power Intensive	This schedule shall apply to supply of power having a Contract Demand from 100 KVA up to 1000 KVA at 11 KV and above 1000 KVA at 33 KV for Steel rolling industry and Metal Alloy, Steel Melting, Ferro Alloy and Ferro metallurgical industries where melting is involved using electric power	
9. LT and HT Agriculture Pump sets	This schedule shall apply to establishments for Irrigation pumping, De-watering and Lift Irrigation for cultivation of food crops such as cereals, pulses, vegetables and fruits etc. and Cane crusher and/or fodder cutter for self-use for Agricultural purposes	This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the same shall be considered under Commercial category. Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be
10. LT and HT Agriculture Allied Activities	This schedule shall apply to establishments for other allied activities related to Agriculture and shall include but not limited to: • Poultry farms, Livestock farms, Combination of livestock farms with dairy, Piggery etc. • Horticulture, Green Houses, Plantations, all types of nurseries etc. • Fish farms including ornamental fish farms, prawn farms, other aqua farms etc. • Tissue culture, Mushroom activities, Aquaculture, Floriculture, Fisheries,	

1	2	3
	Sericulture, Floricultural nurseries, hatcheries etc. • Any other agricultural activity not falling under HT-Agriculture (A) shall be covered under this category	charged Commercial Tariff.
11. MES/Defense Establishments	This schedule shall apply to supply of power for defense installation establishments, having mixed load with predominantly lighting or non-industrial load of more than 50% of connected load	
12. LT Public Lighting	This schedule shall apply to public lighting systems. It would include the following categories but not limited to: • Market Places, Roads, Pathways and Parking Lighting belonging to local authorities such as Municipality/ Panchayats/Government; • Lighting in Public Gardens; • Traffic Signals and Traffic Islands; • State Transport Bus Shelters; • Public Sanitary Conveniences; and • Public Water Fountains and such other Public Places open for general public free of charge. • Street lighting in the colony of a factory which is situated separately from the main factory. • This shall also be applicable to public lighting of Government/Semi Government Establishments but shall not be applicable in case of private establishments	
13. LT Hoardings/ Sign Boards	This schedule shall apply to lighting advertisements, hoardings and displays at departmental stores, malls, multiplexes, theatres, clubs, hotels, bus shelters, Railway Stations etc. and shall be separately metered and charged at the tariff applicable for "Hoardings/Sign Board" category. However use of electricity for displays for the purpose of indicating/displaying the name and other details of the shop, on commercial premises itself, shall be covered under the prevailing tariff for such shops or commercial premises	
14. LT Temporary Supply	a) LT Temporary Domestic: This schedule shall apply to usage of electricity for all religious purposes or public functions for non-commercial purposes. It shall also apply for construction of own house by an individual with single tenement b) LT Temporary Commercial: This schedule shall apply to usage of electricity for any of the activities not covered under LT Temporary Domestic. It would include but not be limited to: • All other constructions including renovation, of all type of structures/ infrastructure, including buildings, bridges, flyovers, dams, power stations, roads, aerodromes, tunnels for laying of pipe lines for all purposes	(i) The temporary connection shall be released through a proper meter (ii) These temporary tariffs are applicable for temporary supply for a period not exceeding three months which may be extended beyond that period only with the prior permission of the Chief Electrical Engineer, up to a maximum period of six months for general purpose and two years for construction activities. (iii) Security deposit shall be collected in advance for an assessed 3 months billing.

1	2	3
15. HT Temporary Supply	This schedule shall apply to usage of electricity for all temporary purposes.	
16. HT SPS Single Point Supply	This schedule shall apply to a group of consumers who desire to take a HT connection at single point for consumption of energy within a Residential Complex – Group Housing Societies, Residential Housing Colonies, Co-operative Group Housing Societies, Township Areas, Commercial Complexes, including Malls, Industrial Complexes, including IT Parks, Bio-Parks or other entities classified as industries by the Government of Goa	In case of a dispute on whether the complex can be classified as an industrial complex, a certificate from Industries Department, Government of Goa will be required. The following shall be the different combinations for SPS in a defined area: (i) All LT consumer mix area (ii) All HT consumer mix area (iii) HT+LT consumer mix area a) The General Conditions, Miscellaneous and General Charges would also be applicable for all SPS categories. b) Based on technical and administrative feasibility, the ED-Goa may consider providing SPS power supply at HV/EHV level to a complex at a mutually agreed injection point. c) The SPS arrangement would be applicable for the application received from a Residential complex/Association of Persons (AOP)/Developer of the complex or any other such similar person. d) The SPS arrangement would be considered by ED-Goa only if the minimum sanctioned cumulative contracted demand of the complex (group of consumers) is 1.15 MVA/1 MW. e) The complete cost of erection and O&M for the sub-transmission and distribution infrastructure within such complex would need to be borne by the said SPS applicant. f) The SPS applicant would be required to develop and maintain an efficient, co-ordinated and quality sub-transmission and distribution system in its area of electricity supply. Further, the applicant would be responsible to comply with Standards of Performance and Supply Code Regulation as laid down under JERC Regulations and guidelines

1	2	3
		of Goa Electricity Department, if any. The network within the complex will need to be certified by the Chief Electrical Inspector. g) For Residential Complexes, SPS application shall be entertained for groups of LT consumers only. The loads of common amenities for such group may include pumps for pumping water supply, lifts and lighting of common area. However, the consumption of energy for common services shall be separately metered with meters installed by the consumer and tested and sealed by licensee. The consumption of such energy over and above 10% of the total consumption of energy shall be billed at LT Commercial Tariff. The user shall inform the details of every non-domestic activity within the residential complex, such as commercial complex, industrial activity, and recreation club, along with the connected load to the licensee at the time of seeking the connection or at the time of enhancement in contract demand, and shall seek a separate connection for the same in case the common load is more than 10%. h) Individual Domestic HT consumers in a residential complex that opt for SPS shall need to apply separately under HT Domestic category. i) The SPS applicant shall not charge tariff to the downstream consumers higher than stipulated. j) The applicant shall be obliged to pay the total tariff (total billed amount) due to ED-Goa, as measured at HT end of SPS. However, to cover energy transformation losses and other O&M expenses, such applicant would be eligible to get rebates from ED-Goa on full bill payment, within the due time: i. 5% on the overall billed amount in all cases of LT and HT consumers.

1	2	3
		ii. Any other loss would be to the account of the applicant. k) For CC and IC applicant, any LT/HT Consumer in the area should have minimum 80% pre-dominant load of their appropriate category i.e. mix load is allowed only upto 20%. For e.g. If a HT/LT Industry Consumer has Factory, Residential Colony for its workers and also some Commercial facilities for his staff and the total of Residential and Commercial load is say around 30%, then separate Individual SPD connection may be taken for each such group as per activity. l) The implementation of SPS arrangement should be in accordance with the Electricity Act, 2003 and APTEL judgement dated 11th July, 2011 in appeal No. 155 and 156 of 2010 in this regard.

10.3. General Conditions of HT and LT Supply

1) These tariffs are proposed to be made applicable from 1st April, 2017 and shall remain valid till further Orders of the Commission.

   Tariffs are subject to revision and/or surcharge that may be levied by ED-Goa from time to time as per the directives of the Commission.

2) The tariffs are exclusive of electricity duty and taxes levied by the Government or other competent authority from time to time which are payable by the consumers in addition to the charges levied as per the tariffs.

3) Unless otherwise agreed to, these tariffs for power supply are applicable for supply at one point only.

4) Unless specifically stated to the contrary the figures of energy charges relate to rupee per unit (kWh) charge for energy consumed and fixed charge relates to a month.

5) If the energy supplied for a specific purpose under a particular tariff is used for a different purpose not contemplated in the contract for supply and/or for which a higher tariff is applicable, it shall be deemed as unauthorized use of electricity and shall be assessed under the provisions of section 126 of the Electricity Act, 2003 and Supply Code Regulation, 2010 notified by the JERC.

6) If connected load of a domestic category is found to be at variance with the sanctioned/contracted load as a result of replacement of appliances such as lamps, fans, fuses, switches, low voltage domestic appliances, fittings, it shall not fall under Section 126 and Section 135 of the EA, 2003.

7) Fixed charges, wherever applicable, will be charged on pro-rata basis from the date of release of connection. These shall be double in case bi-monthly billing is carried out and shall be proportionately calculated as per the number of days of billing. Similarly slabs of energy consumption shall also be considered accordingly in case of bi-monthly or periodic billing.

8) The consumption for factory lighting/pump house lighting shall be billed as per respective main tariff category. A separate energy meter for recording energy consumed towards factory lighting for new installation need not be provided. For the existing installations, till the factory lighting meter's mains are shifted to main meter, the total energy consumption shall be arrived at by adding the energy consumption of the main energy meter and the factory lighting meter.

9) Supply of power in all cases shall be subject to the execution of Agreement between the Electricity Department, Goa and consumers and as per the JERC (Electricity Supply Code) Regulation, 2010. The other conditions, definitions etc. shall be applicable as per the Electricity Act, 2003 and various JERC Regulations, such as Standards of Performance, Supply Code, Conditions of Supply, Distribution Code etc., issued from time to time.

10) **Billing of Demand in excess of Contracted Demand**

The billing shall be on the maximum demand recorded during the month or 75% of contracted demand whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that portion of the demand in excess of the contracted demand shall be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal energy rate.

The definition of the maximum demand would be in accordance with the provisions of the JERC (Electricity Supply Code) Regulations, 2010. If such over drawal is more than 20% of the contracted demand then the connection shall be disconnected immediately.

Explanation:

Assuming the contract demand as 100 kVA, maximum demand at 120 kVA and total energy consumption as 12000 units, then the consumption corresponding to the contract demand will be 10,000 units (12000 X 100/120) and consumption corresponding to the excess demand will be 2000 units. This excess demand of 20 kVA and excess consumption of 2000 units will be billed at twice the respective normal rate. E.g. in case of HTI/Industrial category, excess demand and consumption will be billed at the rate of Rs. 350 per kVA per month and Rs. 6.60/kWh respectively. Connections drawing more than 120 kVA shall be disconnected immediately.

11) The adjustment because of Fuel and Power Purchase Cost variation shall be calculated in accordance with the FPPCA formula separately notified by the Commission under the Regulation. Such charges shall be recovered/refunded in accordance with the terms and conditions specified in the FPPCA formula.

12) The values of the 'K' factor applicable for the different consumer categories for use in the FPPCA formula shall be as specified in this Tariff Order for FY 2016-17.

13) **Power Factor Charges for HT and EHT**

a) **'Power Factor'** means, the average monthly power factor and shall be the ratio expressed as a percentage of the total kilowatt hours to the total kilovolt ampere hours supplied during the month; the ratio being rounded off to two decimal figures.

b) The consumer shall maintain the monthly average power factor of the supply not less than 90% (lagging). If the monthly average power factor of (a) consumer falls below 90% (0.9 lagging), such consumer shall pay a surcharge in addition to his normal tariff @ 1% on billed demand and energy charges for each fall of 1% in power factor upto 70% (lagging).

c) In case the monthly average power factor of the consumer is more than 95% (95% lagging), a power factor incentive @ 1% on demand and energy charges shall be given for each increase of 1% in power factor above 95% (lagging)

d) If the average power factor falls below 70% (lagging) consecutively for 3 months, the licensee reserves the right to disconnect the consumer's service connection without prejudice for the levy of the surcharge.

14) For staff quarters, rest/guest houses, street lighting in the colony of a factory which is situated separately from the main factory and for distribution lines, service lines, etc. permitted to be owned and maintained by the HT consumer owning the factory, there shall be a separate connection and all energy consumed shall be charged under Single Point Supply.

15) **Advance Payment Rebate**: If payment is made in advance well before commencement of the consumption period for which the bill is prepared, a rebate @ 1% per month shall be given on the amount (excluding security deposit, taxes and duties) which remains with the licensee at the end of the month. Such rebate, after adjusting any amount payable to the licensee, shall be credited to the account of the consumer.

If payment is made in advance along with prior declaration of premises to be closed for a certain period of time, a rebate of 1% per month shall be given on the amount (excluding security deposit, taxes and duties) which remains with the licensee at the end of the month. Such rebate, after adjusting any amount payable to the licensee, shall be credited to the account of the consumer.

16) **Prompt Payment Rebate:** If payment is made at least 7 days in advance of the due date of payment a rebate for prompt payment @ 0.25 % of the bill amount (excluding taxes and duties) shall be given. Those consumers having arrears shall not be entitled for such rebate and the amount paid will first be used to set off past liabilities.

17) **Delayed Payment Charges (DPC):** In case the electricity bills are not paid within the due date mentioned on the bill, delayed payment charges of two percent (2%) (computed on a daily basis on the outstanding bill from the due date till the date of payment) shall be levied on the bill amount. However, if a consumer makes part payment of a bill (in exceptional circumstances, with prior approval of the Chief Electrical Engineer), within the due date, then the delayed payment charges shall be applicable only on the amount which was not paid within the due date.

Such surcharge shall be rounded off to the nearest multiple of one rupee. Amount less than 50 paise shall be ignored and amount of 50 paise or more shall be rounded off to the next rupee.

If the consumer fails to pay the energy bill presented to him by the due date the department shall have the right to disconnect the supply after giving 15 days notice as per provision of the Electricity Act, 2003 and Supply Code Regulations 2010 of JERC as amended from time to time.

In case of non-realization of payment through Cheque, a penalty of 5% ofthe cheque amount in addition to the Delayed Payment Charges (DPC) will be levied on the consumers.

18) **Time of Day Tariff (ToD):**

i. Under the Time of Day (ToD) Tariff, electricity consumption and maximum demand in respect of HT/EHT consumers for different periods of the day, i.e. normal period, peak load period and off peak load period, shall be recorded by installing a ToD meter.

ii. The maximum demand and consumption recorded in different periods shall be billed at the following rates on the tariff applicable to the consumer.

Time of use	Demand Charges	Energy Charges
Normal period (7:00 a.m. to 6:00 p.m)	Normal Rate	Normal rate of energy charges
Evening peak load period (6:00 p.m to 11.00 p.m)	Normal Rate	120% of normal rate of energy charges
Off-peak load period (11:00 p.m to 7:00 a.m)	Normal Rate	90% of normal rate of energy charges

iii. Applicability and Terms and Conditions of ToD tariff:

i. ToD tariff is mandatory for HT/EHT consumers and shall be optional for LT industrial and commercial consumers.

ii. The facility of aforesaid ToD tariff shall not be available to HT/EHT consumers having captive power plants and/or availing supply from sources other than ED-Goa through wheeling of power.

iii. The HT/EHT industrial consumers who have installed standby generating plants shall also be eligible for the aforesaid ToD tariff.

iv. In the event of applicability of ToD tariff to a consumer, all other terms and conditions of the applicable tariff shall continue to apply.

10.4. Schedule of Miscellaneous Charges

Description	Approved Charges
1	2
Monthly Meter Rental Charges (as per provisions of Regulation 7.3 (1) of JERC (Electricity Supply Code) Regulations, 2010)	
Single Phase LT meter	Rs. 10/month
Three Phase LT meter	Rs. 20/month
Three Phase LT meter with CTs	Rs. 50/month
LT Meter with MD Indicator	Rs. 30/month
Tri-vector Meter	Rs. 1,000/month

1	2
Temporary Supply	Shall be twice as applicable in above meter types
Changing or moving a meter board	Actual Cost + 15%
Note: a. For all domestic and other LT loads less than 50 kW loads in Urban and Rural areas - Static single phase/three phase meters b. For LT (contracted load ≥ 50 KW)/HT/EHT consumer – Static, 3 Phase Tri-vector meters with MDI (MD Display)	
Reconnection Charges (as per provisions of Regulation 9.3 (c) of JERC (Electricity Supply Code) Regulations, 2010	
LT Services – At Cut outs	
• Single Phase	Rs. 25/-
• Three Phase	Rs. 50/-
LT Services – At Overhead Mains	
• Single Phase	Rs. 30/-
• Three Phase	Rs. 50/-
LT Services – At Underground Mains	
• Single Phase	Rs. 75/-
• Three Phase	Rs. 125/-
HT Services	Rs. 200/-
***Note*:** If the same consumer seeks reconnection within 12 months from the date of reconnection or disconnection, 50% will be added to above charges	
Re-Rating of Installations	
Lighting Installation	Rs. 25/-
Motive Power Installation	Rs. 50/-
Testing Fee for Various Metering Equipments (as per provisions of Regulation 7.4 of JERC (Electricity Supply Code) Regulations, 2010	
Single phase LT	Rs. 25/energy meter
Poly Phase LT without CT	Rs. 50/energy meter
L.T. meter with CTs/Demand or Special Type Meters	Rs. 150/energy meter
H.T and E.H.T. metering equipment	Rs. 10,000/- at site
Transformer Oil	Rs. 200/- per sample
3 – Ø Phase Tri-vector Meter Industrial LT Consumer	Rs. 1,000/- for laboratory testing
3 – Ø Phase Tri-vector Meter 11 KVand 33kV HT Consumer	Rs. 5,000/- at site
Three Phase Tri-Vector Meter 110 KV EHT Consumers	Rs. 1000/- at site
Combined CTPT Unit for 11kV and 33kV Consumer	Rs. 2,500/-
110 KV CT / PT Unit	Rs. 10,000/-
Single Phase CT	Rs. 150/unit
Three Phase TT Block	Rs. 500/unit
Distribution Transformer Testing (HT con.)	Rs. 6,000/-

1	2
Power Transformer Testing (EHT consumer)	Rs. 20,000
Service Connection Charges (as per provisions of Regulation 3.3 (3) of JERC (Electricity Supply Code) Regulations, 2010	
Single Phase 1 ϕ	Rs. 250
Three Phase 3 ϕ	Rs. 500 to Rs. 1,200
HT (First 500 KVA)	Rs. 10,000
HT (Beyond 500 KVA)	Rs. 20,000
Extra Length for 1 ϕ (beyond 30 meters)	Rs. 50/meter
Extra Length for 1 ϕ for agricultural consumers (beyond 300 meters)	Rs. 25/meter
Extra Length for 3 ϕ (beyond 30 meters)	Rs. 100/meter
Extra Length for 3 ϕ for agricultural consumers (beyond 300 meters)	Rs. 50/meter
Testing Consumer's installation (as per provisions of Regulation 4.10 (6) of JERC (Electricity Supply Code) Regulations, 2010	
For first test of the new installation on or off an extension to an existing installation if the installation is found to be defective	NIL
For Subsequent test of the new installation or of an existing installation if the installation is found to be defective	
• Single phase LT	Rs. 100/-
• Three phase	Rs. 200/-
• MS/BS loads upto 70kW	Rs. 4,000 + ST
• LS/BS/RT (loads Above 70kW)	Rs. 8,000 + ST
Changing the Meter or its position in the same premises at the request of the consumer when no additional material is required (as per provisions of Regulation 6.3 c) of JERC (Electricity Supply Code) Regulations, 2010	
Single phase	Rs. 100/-
3-phase without C.Ts	Rs. 200/-
L.T. meter with C.T.s	Rs. 500/-
H.T and E.H.T. metering equipment	Rs. 8,000 + ST
Re-sealing charges irrespective of the number of seals involved against each item below and where seals found to have been broken by the consumer	
Meter cupboard / Meter Cubical / Box	Rs. 50/-
Where cut-out is independently sealed	Rs. 50/-
Meter cover or Meter Terminal cover	Rs. 50/-
Meter cover of Meter Terminal cover (3 phase)	Rs. 50/-
Maximum demand Indicator or C.T.s chamber	Rs. 50/-
Service Charges	
General Supply	
• Single Phase	Rs. 10/-
• Three phase below 70kW	Rs. 20/-
• Three phase above 70kW	Rs. 50/-

1	2
Industrial/bulk/ agriculture /Street Lightning Supply	
• Upto 70kW	Rs. 25/-
• Above 70kW	Rs. 50/-
Replacement of broken glass	
Replacement of broken glass of meter cupboard (When there is default on Consumer Side)	Rs. 50/-
Replacement of broken Glass of single phase meter if the consumer has broken or tamper and with meter.	Rs. 50/-
Replacement of broken Glass of three phase meter if the consumer has broken or tamper and with meter	Rs. 50/-
Supply of duplicate copies of electricity bills	
Domestic Consumers	Rs. 5 per bill or Rs. 10 per statement
Non-Domestic consumers	-
LT Industrial upto 20kW and AP Consumer	-
H.T Industrial and Bulk supply consumer	Rs. 5 per bill or Rs. 10 per statement

Chapter 11. Directives

Over the years, the Commission has issued various directives to the Petitioner for necessary action at its end. It has been observed that the Petitioner is not fully complying with many of the directives issued by the Commission. In order to strengthen the effective monitoring and ensure timely implementation of all the directives in true spirit, the Commission hereby directs that the Petitioner shall now compulsorily submit:

- ***The detailed action plan for compliance of all the directives within 1 month of the issuance of this Order.***
- ***The quarterly progress report as per the detailed action plan for all the directives issued in the subsequent sections within 10 days of the end of each quarter of the calendar year.***

11.1. Directives continued in this Order

While examining the compliance note and supporting documents submitted by the Petitioner in the present Petition, it is observed that some of the directives issued in the previous Tariff Orders have not been fully complied with by the Petitioner.

The Commission is of the view that substantial time has already been given to the utility for compliance with these directions. Thus, the Commission hereby directs the utility to comply with the directions mentioned below in the given time frame, failing which the Commission shall be constrained to take appropriate action under Section 142 of the Electricity Act, 2003 and various other provisions of the Act, and Regulations framed by JERC.

11.1.1. Annual Statement of Accounts

Originally Issued in Tariff Order dated 27th June, 2012
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted with serious concern that the Petitioner is yet to submit the audited accounts for the review of the Commission.* *The Commission directs the Petitioner to expedite the preparation of the accounts on*

Commercial Principles audit thereof for FY 2011-12, FY 2012-13 FY 2013-14, FY 2014-15 and FY 2015-16. *The Petitioner is also directed to file the True-up Petitions for FY 2011-12 and FY 2012-13 by 30th June, 2016.* *Also the True-up Petitions for FY 2013-14 and FY 2014-15 should be filed along with the next APR Petition failing which, the Commission shall be constrained to take appropriate action against the Petitioner.*
Petitioner's Response in the Present Tariff Petition *The status of Audited reports for the previous years is as follows:* • *FY 2011-12: the Audit Certificate from the Comptroller & Auditor General of India, Porvorim is received on 20-07-2016 and the same is enclosed for your reference.* • *FY 2012-13: Audit is completed and certificate from CAG awaited.* • *FY 2013-14 and 2014-15: Data collection from divisions is in the process and once the FAR for FY 2013-14 and 2014-15 is ready the same will be incorporated. It is estimated that Audit of FY 2013-14 and FY 2014-15 would be completed by March, 2017.*
Commission's Response *The Commission appreciates the effort undertaken by the Petitioner for the preparation of audited accounts on commercial principles. However, the Commission is of the view that while the Commission has undertaken the True-up for the FY 2011-12 and FY 2012-13 in this Order, in normal course and as per the provisions of Tariff Regulations, 2009, the True-up upto FY 2015-16 should have been done in this Order.* *The Commission has taken a serious note of this and directs the Petitioner to undertake necessary actions on priority so as to ensure that all the True-ups of FY 2013-14 to FY 2016-17 (along with audited accounts) are submitted with the Tariff Petition of FY 2018-19.* *The Commission shall be constrained to take appropriate action against the Petitioner in case of further non-compliance.*

11.1.2. Preparation of Fixed Asset Register

Originally Issued in Tariff Order dated 27th June, 2012
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted with serious concern that the Petitioner is yet to submit the Fixed Asset and Depreciation Register.* *The Commission directs the Petitioner to expedite the preparation of the Fixed Asset and Depreciation Register and audit thereof for FY 2011-12, FY 2012-13, FY 2013-14, FY 2014-15 and FY 2015-16 and submit along with the True-up Petitions of respective years failing which, the Commission shall be constrained to take appropriate action against the Petitioner.*
Petitioner's Response in the Present Tariff Petition *The status of FAR for the previous years is as follows:* • *FY 2013-14 and 2014-15: Data collection is in the process. The same will be informed to the Commission, once they are available.* • *GIS mapping of the assets will be completed as the part of RAPDRP Part A by 31st March, 2017.*
Commission's Response *The Commission has noted with serious concern that the Petitioner is yet to submit the Fixed Asset and Depreciation Register. In previous year's submission also, the Petitioner had communicated*

the following: *"GIS mapping of the assets will be completed as the part of RAPDRP Part A by 31st March, 2016".* *Further, the Petitioner has not given any reason for delay in completion of GIS Mapping. The Commission would like the Petitioner to take note of the fact that such submissions without any justifications are not appreciated by the Commission.* *The Commission now direct the Petitioner to submit action plan along with timelines for preparation of Fixed Assets and Depreciation Register for previous years within 1 month of issuance of this Order. The Commission will be constrained to take appropriate action in case of further non-compliance by the Petitioner.*

11.1.3. Energy Audit Reports

Originally Issued in Tariff Order dated 27th June, 2012
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted with serious concern that the Petitioner is yet to submit the Energy Audit Reports.* *The Commission directs the Petitioner to prepare the Energy Audit Report before 30th October, 2016 and file it along with next Petition, failing which the Commission will be constrained to take appropriate action against the Petitioner.*
Petitioner's Response in the Present Tariff Petition *Station metering, Feeder metering and DTC Metering is in progress, only then the Energy Auditing will be initiated.*
Commission's Response *The Commission has noted with serious concern that the Petitioner is yet to submit the Energy Audit Reports for previous years.* *The Commission now direct the Petitioner to submit action plan along with timelines for preparation of Energy Audit Report within 1 month of issuance of this Order. The Commission will be constrained to take appropriate action in case of further non-compliance by the Petitioner.*

11.1.4. Employee Cost/Manpower study

Originally Issued in Tariff Order dated 27th June, 2012
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted with serious concern that the Petitioner is yet to submit a systematic manpower study report with a specific focus on manpower rationalization. The Commission is of the view that the issue of rationalization of manpower cannot be postponed indefinitely as it is not in the interest of consumers.* *The Commission directs the Petitioner to prepare Systematic Manpower Study Report before 30th October, 2016 and file it along with the next Petition, failing which the Commission will be constrained to take appropriate action against the Petitioner.*
Petitioner's Response in the Present Tariff Petition *The study is under process and the report will be submitted to the Commission once the study is completed.*
Commission's Response *The Commission has noted with serious concern that the Petitioner is yet to submit a systematic*

manpower study report with a specific focus on manpower rationalization.

The Commission now direct the Petitioner to submit action plan along with timelines for preparation of a systematic manpower study report with a specific focus on manpower rationalization within 2 months of issuance of this Order. The Commission will be constrained to take appropriate action in case of further non-compliance by the Petitioner.

11.1.5. Interest on Consumer Security Deposit

Originally Issued in Tariff Order dated 31st March, 2013
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission directs the Petitioner to pay the interest on consumer security deposit in the bills of April/May as per the provisions of JERC supply code regulations, 2009 and file the status report of the same along with the next Petition failing which, the Commission will be constrained to take appropriate action against the Petitioner.*
Petitioner's Response in the Present Tariff Petition *The Budget Provision for payment of interest to the consumers on Security Deposit for the FY 2011-12 to 2013-14 has already been made and the process of crediting the same in the consumer's bills is in progress. Till date amount of Rs. 78,10,719/- is credited in the consumers bills, and the remaining payment of interest to the consumer on Security Deposit is in process. The detailed report duly compiled shall be submitted soon after receipt from the Divisions. As regard, the interest for the FY 2014-15 and FY 2015-16, the same is in process and is awaited for the creation of the budget head in the accounts for which the proposal have been approved in-principle by the Government.*
Commission's Response *The Commission observes that while the Petitioner has undertaken some efforts towards compliance of this directive, still substantial payment is yet to be done by the Petitioner. The Commission is of the view that substantial time has already been given to the Petitioner. The Commission now directs the Petitioner to compute the quantum of backlog and ensure payment of balance security deposit pertaining to previous years before 31st August, 2017. No further extension will be entertained by the Commission in this matter and in case of further non-compliance, the Commission will be constrained to take appropriate action under Section 142 of the Electricity Act, 2003.*

11.1.6. Unbundling of Electricity Department

Originally Issued in Tariff Order dated 06th April, 2015
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted the submission of the Petitioner. However, mere creation of separate posts will not serve the purpose of compliance and is not in line with the spirit of Electricity Act, 2003 also. The Commission directs the Petitioner to actively pursue the unbundling of the Department with the Government of Goa and submit status report by 30th October, 2016.*
Petitioner's Response in the Present Tariff Petition *The proposal for unbundling is under process of approval from the Government and is yet pending.*
Commission's Response *The Commission has noted the submission of the Petitioner. The Commission directs the Petitioner to actively pursue the unbundling of the Department with the Government of Goa and submit quarterly progress reports in this regard.*

11.1.7. Sub-Divisions as Strategic Business Units

Originally Issued in Tariff Order dated 06th April, 2015
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission directs the Petitioner to introduce the system of Cost-Revenue Centre Oriented Sub-Divisions at least in two Divisions in its operational area along with targets for FY 2016-17 under intimation to this Commission within 1 month of issuance of this Order. The Petitioner will also submit the quarterly progress report on the same.*
Petitioner's Response in the Present Tariff Petition *The Divisions informed their inability towards introducing system of Cost-Revenue Centre Oriented Sub-Divisions in operational area of the Divisions along with targets for FY 2016-17 as directed by JERC, since:* *1) The balance 20% of DTC metering is on verge of completion. There is a shortage of meters for replacement of non-working meters and existing Mechanical meters.* *2) The work of Consumer Indexing transformer wise and feeder wise is in progress by M/s. REC TPDL.*
Commission's Response *The Commission does not accept the submission of the Petitioner. The Commission directs the Petitioner to submit the sub-division wise status report of readiness of all the sub-divisions towards introduction of the system of Cost-Revenue Centre Oriented Sub-Divisions within 2 months of issuance of this Order.*

11.1.8. Installation of Pre-Paid Meters

Originally Issued in Tariff Order dated 06th April, 2015
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted the submission of the Petitioner. In addition to the earlier directive to start implementation of pre-paid meters on pilot basis for Government offices in Town areas, the Commission also directs the Petitioner to submit action plan for conversion of all connections whose premises remain locked for 3 or more months in a year to pre-paid meters.* *The Petitioner should submit action plan in this context by 30th June, 2016*
Petitioner's Response in the Present Tariff Petition *As the cost of pre-paid meters being on a much higher side, the decision regarding installation of pre-paid meter yet to be taken.*
Commission's Response *The Commission would like to highlight the Petitioner has long history of issues related to billing and collection. The pre-paid meters, though being costly as compared to conventional meters, will be cost effective in longer run. Further, GoI is already focusing on installation of smart meters.* *Thus, the Commission now directs the Petitioner to finalize and submit a proposal for installation of smart meters for following consumers:* *1. All HT and EHT Consumers* *2. LT Industries and Hotel Industries* *3. All Government Connections* *4. All connections whose premises remain locked for 3 or more months in a year.* *The Petitioner is directed to submit this proposal within 4 months of issuance of this Order failing which the Commission will be constrained to take appropriate action against the Petitioner.*

11.1.9. Renewable Energy Obligation

Originally Issued in Tariff Order dated 06th April, 2015
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted the submission of the Petitioner and directs it to submit the status report of preparation of Solar Policy by 31st October, 2016.*
Petitioner's Response in the Present Tariff Petition *EDG has already submitted the status of compliance of RPO by affidavit dated 22nd April, 2016 and 14th August, 2015 vide case No. 175 of 2015, that it has totally fulfilled its RPO (both solar and Non-solar) target till the FY 2015-16 by way of partly purchase of physical power and partly by RECs.*
Commission's Response *The Commission has noted the submission of the Petitioner. However, the Commission directs the Petitioner to submit the status of finalization of Solar Policy within 1 month of issuance of this Order.*

11.1.10. Management Information System (MIS) and Database Management System (DBMS)

Originally Issued in Tariff Order dated 06th April, 2015
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted the submission of the Petitioner and directs it to submit the status report on the implementation of MIS and DBMS by 31st July, 2016.*
Petitioner's Response in the Present Tariff Petition *MIS & DBMS will be implemented once R-APDRP part A project is completed.*
Commission's Response *The Commission has noted that the Petitioner is yet to comply with this directive.* *The Commission now directs the Petitioner to submit action plan along with timelines for implementation of MIS and DBMS within 2 months of issuance of this Order.*

11.1.11. Street Lights switching 'on' and 'off'

Originally Issued in Tariff Order dated 06th April, 2015
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted the submission of the Petitioner that the installation of Timer switches is in the final stages of Implementation and only MoU needs to be signed between EESL and EDG and directs it to submit the status report on the same by 31st July, 2016.*
Petitioner's Response in the Present Tariff Petition *Order is placed on M/s. EESL, Delhi and the work is under progress.*
Commission's Response *The Commission has noted the submission of the Petitioner and directs it to submit quarterly progress reports to the Commission.*

11.1.12. Billing and Collection Efficiency

Originally Issued in Tariff Order dated 06th April, 2015
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission hereby directs the Petitioner to submit the quarterly report on the status of collection of arrears along with action plan for liquidating the arrears.*
Petitioner's Response in the Present Tariff Petition *Efforts are made for compiling the data related to Billing efficiency from all the Divisions. However, the data issues are faced by the Department on the billing as specified in the above related Chapter. EDG is in the process of resolving the issues.*
Commission's Response *The Commission notes with serious concern the state of affairs of operation of the department. The Commission directs the Petitioner to take all necessary actions on priority so as to resolve all the issues pertaining to billing and collection and report the status along with next Tariff Filing.*

11.2. Directives dropped in this Order

While examining the compliance note and supporting documents submitted by the Petitioner in the present Petition, it has been observed that some of the directives issued in previous Tariff Orders are no longer required.

The Commission is of the view that since these directions have been complied with satisfactorily, these directions are no longer required in the present context and are required to be dropped or replaced with new directions. No further compliance/status is required to be submitted by the Petitioner for the following directives:

11.2.1. Creation of separate bank account

Originally Issued in Tariff Order dated 06th April, 2015.
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted the submission of the Petitioner and directs the Petitioner to actively pursue this matter with the Government of Goa and submit the status report of same by 30th October, 2016.*
Petitioner's Response in the Present Tariff Petition *Being Government Department, the present mechanism of accounting of revenue receipts is being remitted in the Government Account under appropriate Head of Account of the Department and hence no separate Bank Account can be created.*
Commission's Response *The Commission observes that the intent of the directive was to bring in the transparency and accountability of consumer's money.* *However, the Petitioner is now preparing and submitting the accounts prepared on commercial principles and getting this audited by statutory auditors, which itself is step towards bringing in transparency and accountability of the money being handled by the Department.* *The Commission is of the view that creation of separate bank account can be taken up at later stage once the accounting and auditing process is fully streamlined and thus decides to drop this directive.*

11.2.2. Capital Investment Plan and Monitoring

Originally Issued in Tariff Order dated 06th April, 2015.
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted the submission of Petitioner and directs the Petitioner to continue compliance of this directive for future capital expenditure also.*
Petitioner's Response in the Present Tariff Petition *The Electricity Department has already started the practice of appointment of Project Management Consultant (PMC) for overseeing the Projects costing more than Rs. 5 crores. As regards Projects under IPDS/DDUGJY, RECPDCL had been appointed as PMC right from preparation of DPR. For major EHV schemes, RECTPCL has been appointed as PMC. The PMC concept will be continued henceforth for the Projects costing more than Rs. 5 crores.* *As regards the engagement of Third Party Quality Auditors for all Projects costing more than Rs. 50 lakhs, the same has also been started by the Department by appointing M/s WAPCOS as the agency, for a period of 2 years with effect from October, 2015.* *As regards setting up of Project Monitoring Cell to monitor the progress on real time basis, where the PMC is not appointed, the same has been monitored at the level of the Executive Engineer, who is overall in charge of the Project. The Assistant Engineer/Junior Engineer of concerned Sub-Division handle the Project directly.*
Commission's Response *The Commission appreciates the efforts undertaken by the Petitioner and decides to drop this directive.*

11.2.3. Arrears of Govt. Departments

Originally Issued in Tariff Order dated 06th April, 2015.
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Petitioner is directed to submit the details of book adjustment along with True-up Petitions of respective years.*
Petitioner's Response in the Present Tariff Petition *Since EDG is the Government department which also undertakes various other works such as PWD, WRD, streetlight and other Government department, the overall accounts are merged and therefore, the book adjustment here means that the amount from the other respective government department is credited to EDG by debit of that account code of the other department, however the budget is allocated accordingly to the concern department and therefore there this arrears are always recovered by such journal entry.*
Commission's Response *The Commission appreciates the efforts undertaken by the Petitioner and decides to drop this directive.*

11.2.4. Create a Central Contracts/tender cell

Originally Issued in Tariff Order dated 06th April, 2015.
Commission's Latest Directive in Tariff Order dated 18th April, 2016 *The Commission has noted the submission of the Petitioner that a contracts/tender cell is proposed to be created which deals with tendering and awarding contracts for all the projects above Rs. 2 crore. The status of action taken may be reported by 30th September, 2016.*

Petitioner's Response in the Present Tariff Petition
The Central Contracts/Tender Cell has been implemented in EDG.
Commission's Response
The Commission appreciates the efforts undertaken by the Petitioner and decides to drop this directive.

11.2.5. Strengthening of Regulatory and Commercial Cell

Originally Issued in Tariff Order dated 06th April, 2015.
Commission's Latest Directive in Tariff Order dated 18th April, 2016
The Commission has noted the action taken by EDG that they have already appointed Consultants for regulatory works.
Petitioner's Response in the Present Tariff Petition
No response submitted by the Petitioner.
Commission's Response
The Commission appreciates the efforts undertaken by the Petitioner and decides to drop this directive.

11.2.6. Power Purchase Strategy

Originally Issued in Tariff Order dated 06th April, 2015.
Commission's Latest Directive in Tariff Order dated 18th April, 2016
The Commission has noted the submission of the Petitioner and directs the Petitioner to prudently purchase power from available options in future also.
Petitioner's Response in the Present Tariff Petition
To optimise the cost, EDG has already initiated the real time power procurement process whereby in case the power available from the exchange is cheaper, then the power from tied-up external source if costly is back down and cheaper power is procured from power exchange.
Commission's Response
The Commission appreciates the efforts undertaken by the Petitioner and decides to drop this directive.

11.2.7. Submission of Status report on Electric shock-deaths

Originally Issued in Tariff Order dated 06th April, 2015.
Commission's Latest Directive in Tariff Order dated 18th April, 2016
The Commission is happy to note that there are no deaths on this account in FY 2014-15. However, the Commission hereby directs the Petitioner to submit the Quarterly Status reports on same.
Petitioner's Response in the Present Tariff Petition
The Quarterly Status report of the Electric shock was submitted on 30th June, 2016, post that there were no such event happened.
Commission's Response
The Commission appreciates the efforts undertaken by the Petitioner and decides to drop this directive.

11.2.8. RPO Compliance of Previous years

Originally Issued in Tariff Order dated 06th April, 2015.

Commission's Latest Directive in Tariff Order dated 18th April, 2016

The Commission has noted the submission of the Petitioner and issued necessary clarifications vide letter No. 22/22/2011-JERC/2217 dated 04th February, 2016.

Petitioner's Response in the Present Tariff Petition

EDG has already submitted the status of compliance of RPO by affidavit dated 22nd April, 2016 and 14thAugust, 2015 vide case No. 175 of 2015, that it has totally fulfilled its RPO (both solar and non-solar) target till the FY 2015-16 by way of partly purchase of physical power and partly by RECs.

Commission's Response

The Commission appreciates the efforts undertaken by the Petitioner and decides to drop this directive.

11.2.9. Capital Expenditure

Originally Issued in Tariff Order dated 06th April, 2015.

Commission's Latest Directive in Tariff Order dated 18th April, 2016

The Commission directs the Petitioner to submit the details of schemes duly approved by the Government in respect of the remaining schemes of Rs. 83.18 crores, for its consideration [Schedule Tribe Development Scheme (P)]. The Commission directs the Petitioner to submit scheme wise actual progress with annual tariff filings and the Commission will accordingly revisit the requirement of capital expenditure and capitalization for the ensuing years. The Commission directs the Petitioner to submit the details of capital expenditure schemes of Rs. 10 crores and more for prior approval of the Commission in line with Regulation 22(b) of the MYT Regulations, 2014.

The Commission directs the Petitioner to ensure compliance of this directive from next filing onwards.

Petitioner's Response in the Present Tariff Petition

Under the Scheduled Tribe Development Scheme, as regards the details of the remaining schemes of Rs. 83.13 crores, no new schemes have been approved by the Government except for the following:-

1) *Work of SETC of 100 KVA distribution transformer alongwith HT line & AB switch at tapping point for electrification of Khadel wada Mangal of Cavrem-Pirla Village Panchayat in Sanguem Constituency–Rs. 0.12 crores.*
2) *Renovation and improvement of the existing LT Distribution network in Khola Village Panchayat under Sansad Adarsh Gram Yojana (SAGY)-Rs. 3.21 crores.*
3) *Development of Village Panchayat Rachol as model village under Sansad Adarsh Gram Yojana (SAGY)-Rs. 4.33 crores.*
4) *Providing 124 Nos. of 20 W LED fixtures at various places of V. P. Molcornem and V. P. Cavrem--Pirla in Sanguem Constituency-Rs. 0.13 crores.*
5) *Electrification of left out wada "Bandel" of village Thodemol in V. P. Kalay, Sanguem in Sanguem Constituency-Rs. 0.24 crores.*
6) *Work of revamping of existing HT/LT overhead lines, transformer double pole structure, providing street lighting, erection of new distribution transformers including power supply for various categories of consumers under the scheduled tribe category in V. P. Mardol, Veling, Priol in Ponda taluka-Rs. 2.78 crs.*
7) *Reconductoring and fortification of LT line network of village Murmune in V.P. Guleli, Sattari taluka-Rs. 0.03 crores.*

The Capital expenditure schemes costing Rs. 10 crores and more, will be submitted for prior approval of the Commission.

Commission's Response

The Commission appreciates the efforts undertaken by the Petitioner and decides to drop this directive.

Annexure 1: Public Notices published by the Petitioner

ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA

CHIEF ELECTRICAL ENGINEER 3rd floor ,Vidyut Bhavan, Panaji Goa - 403 001

PUBLIC NOTICE

IN RESPECT OF

PETITION FOR APPROVAL OF TRUE UP FOR FY 2011-12 AND FY 2012-13, ANNUAL PERFORMANCE REVIEW (APR) OF FY 2015-16 & FY 2016-17 AND TARIFF DETERMINATION FOR FY 2017-18 FILED BY CHIEF ELECTRICAL ENGINEER, ELECTRICITY DEPARTMENT OF GOA BEFORE THE JOINT ELECTRICITY REGULATORY

COMMISSION FOR GOA AND UNION TERITORIES.

1. Notice is hereby given to all consumers and stakeholders that the Electricity Department of Goa (EDG), a deemed licensee engaged in the distribution and retail sale of electricity has filed before the Joint Electricity .Regulatory Commission (for State of Goa and UTs), True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination proposal for FY 2017-1.8 under Section 45, 46, 61, 62, 64 and 86 of the Electricity Act, 2003, Joint Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2009 and Joint Electricity Regulatory Commission (Multi Year Distribution Tariff) Regulations, 2014.

The filing has been taken on record by the Hon'ble Commission vide petition No 228/2017 on 22/03/2017. 2. The summary of True-up for FY 2011-12 and FY 2012-13is given in the table below:

Summary of True-up and Gap for FY 11-12 and FY 12-13 (Rs. Crs)

Sr. No.	Particulars	FY 11-12		FY 12-13	
		Approved	Actual	Approved	Actual
1	Cost of power purchase	1,060.47	1,125.10	866.01	1,045.22
2	Employee costs	125.89	155.04	136.44	154.63
3	R&M expenses	17.03	9.52	18.55	19.16
4	Administration and general expenses	19.31,	13.8	8.59	22.27
5	Depreciation	3.33	32.75	8.8	35.45
6	Interest and Finance Charges	6.42	52.78	10.33	61.93
7	Interest on Working Capital	3.83	4.14	2.22	1.9
8	Interest on Security Deposit	-	0.14	5.94	0.23
9	Return on NFA	-	13.21	3.68	15.27
10	Provision for Bad Debts	-	2.54	-	2.67
11	Other Expenses	–	-	0.6	
12	Total Revenue Requirement	1,236.28	1,409.03	1,061.18	1,358.69
13	Less: Non Tariff Income	21.06	17.04	23.06	13.57
14	Less: Revenue from Sale of Power - UI Pool	52	46.48	-	20.68
15	Less: Revenue from Sale of Power-Exchang-es	57.7	57.7	6.11	12.08
16	Less: Revenue from Sale / Banking of Power	8.71	–	-	-
17	Aggregate Revenue Requirement (12-13-14-15-16)	1,096.80	1,287.81	1,032.01	1,312.36
18	Revenue from Tariff	813.65	856.35	970.94	73.58
19	Net Gap (17-1 8)	283.15	431.46	61.08	338.78

3. The summary of Annual Performance Review (APR) of FY 2015-16 & FY 2016-17 and Annual Revenue Requirement of FY 2017-18 is given in the table below:

Summary of ARR and Gap for FY 15-16, FY 16-17 and FY 17-18 (Rs. Crs)

Sr. No.	Particulars	FY 15-16		FY 16-17		FY 17-18
		Approved	Provisional	Approved	Actual	Approved
11	Less: Budgetary Support from Government of Goa					148.74
12	Proposed Gap Recovery in FY 2017-18					0%
	Proposed Tariff hike from last year					

6. It is submitted that the total proposed cumulative Revenue Gap of Rs. 149 Crs till FY 2017-18 will be met through budgetary support to be provided by the State Government of Goa. Therefore, no tariff hike is proposed in FY 2017-18 and similar existing tariff may continue. The proposal for retail tariffs for FY 2017-18 is as under:

Proposed Tariff Structure for FY 2017-18

Approved Tariff Structure - Proposed to be continued for FY 2017-18

Sr No	Category of Consumer	Fixed charge basis	Fixed charges (Rs)	Energy Charges (Rs/kWh)
A	Low Tension Supply			
1(a)	Tariff LTD/Domestic			
	0-100 Units	Rs/Conn/ Month -Single Phase	20	1.30
	101-200 Units		20	1.90
	201-300 Units	Rs/Conn/ Month -Three Phase	45	2.40
	301 -400 Units		45	3.10
	401 and above		45	3.60
1(b)	Tariff LTD/Low Income Group	Rs/Conn/ Month	30	
2	Tariff-LTC/Commercial			
2(a)	0-20 KW Commercial consumers			
	0- 100 units	Rs/Conn/ Month	50	3.25
	101- 200 units	Rs/Conn/ Month	50	3.90
	201-400 units	Rs/Conn/ Month	50	4.30
	Above 400 units	Rs/Conn/ Month	50	4.70
2(b)	20-90kW Commercial consumers			
	0-100 units	Above 20kW-90 kW. Rs.50/Conn/ month + additional Rs.55/kW for every kW increase above 20 kW		3.25
	101-200units			3.90
	201-400 units			4.30

Approved Tariff Structure - Proposed to be continued for FY 2017-18

Sr. No	Category of Consumer	Fixed charge basis	Fixed charges	Energy Charges (Rs/kWh)
	Above 400 units			4.70
3	Tariff-LTI/ Industry			
	0 - 500 units	Rs/HP/ Month	30	3.10
	Above 500 units	Rs/HP/ Month	30	3.50
4	Tariff-LTP/Mixed (Hotel Industries)	Rs/kW/ Month	30	4.50
5	Tariff-LTAG/Agriculture (A) (Pump Sets/Irrigation)	Rs/HP/ Month	12	1.30
	Tariff-LTAG/Agriculture Allied (B) (Allied Activities)	Rs/HP/ Month	20	1.60
6	Tariff-LTPL/Public Lighting	Rs/kW/ Month	40	3.90

Annexure 2: Public Notices published by the Commission for intimation of public hearing

...tiles Export Pro- that since there yments have ve been issued are yet to be ny of the textiles g in the cau-) fault on their r with RBI and erwise, it may rts, added Lahoti.

(Gujarat) in November 2015. The unit offers various financial services such as funded and non-funded facilities to overseas operations of Indian corporates, extending loans to overseas business ventures of Non Resident Indians, Trade Finance solutions to the Indian clients to name a few. As part of its effort to fund diverse business ventures, the bank raised foreign currency funds by way of bi-lateral loans / borrowings from the banks across the world. Federal Bank – IBU has executed transactions in various segments such as manufacturing, metals, media and entertainment.

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he process of rcraft carriers counter China's way in the Indian d focus more nomy." It said val build-up was th its economic ial and being s second-largest Beijing was "ca- uilding a strong feguard the se- trategic maritime

Joint Electricity Regulatory Commission

(for The State of Goa and Union Territories)
2nd Floor, HSIIDC Office Complex, Vanijya Nikunj Complex, Udyog Vihar, Phase-V, Gurgaon (Haryana) Ph.: 0124-2342851, 2342852 Fax: 0124-2342853, E-mail: secy-jerc@nic.in Website: www.jercuts.gov.in

PUBLIC NOTICE

Further to the Public Notice published on 14.4.2017 the Stakeholders of the State of Goa are hereby informed that the Public Hearing in the Petition No. 228/2017 for approval of True-Up for the FY 2011-12 and the FY 2012-13, Annual Performance Review for the FY 2015-16 and the FY 2016-17, and Tariff for the FY 2017-18 in respect of the State of Goa shall be held as per the schedule given below:

Date / Day	Time	Venue
27th April, 2017 (Thursday)	10.00 hrs. onwards	Nalanda Hall, 5th floor, EDC House, Atmaram Borkar Road, Panaji, Goa 403 001.

A copy of the Petition is also available on the Commission's website **www.jercuts.gov.in** Interested persons may file Suggestions/objections in six copies on the above Petition, in person or through e-mail **www.secy-jerc@nic.in/registered** post on or before **27.04.2017 addressed to The Secretary, JERC (for the State of Goa & UTs)** at the above mentioned address with a copy to the Chief Engineer, ED, Goa.

Sd/-
(Keerti Tewari), Secretary

Government of Goa

Directorate of Animal Husbandry & Veterinary Services

Pashusamvardhan Bhavan, Patto, Panaji, Goa - 403 001, India.

Phone Nos.: +91 (0832) 2437245 Fax No.: +91 (0832) 2437244
www.ahvs.goa.gov.in E-mail: dir-ahvs.goa@nic.in

No.13-84/Microchips/AH/ 2017-18/480 Date: 24/04/2017.

Re - TENDER NOTICE
(e-TENDERING MODE ONLY)

The Director, Animal Husbandry & Veterinary Services, Government of Goa, Patto Panaji, on behalf of the Governor of Goa, invite sealed tenders (e-Tendering mode only) for supply of **"RFID Microchips and Scanners".**

The cost of Tender document is Rs.5000/- (Rupees Five Thousand Only) and Tender processing fee is Rs.1500/- (Rupees

The Last date and tim... for participation in e-te...

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Note: For details ... CPP portal.

Annexure 3: List of Stakeholders

The following is the list of the stakeholders who have submitted objections/suggestions:

Sl. No.	Name of Stakeholder	Representation (in Writing)	Representation (In Person)
1	Owen G. Broganaga, Secretary, 465 Chamber Vaddo		√
2	Maria D Souza, Secretary, Solit Surya Grand	√	√
3	Arvind S., Representative TTAG, Goa	√	√
4	Prasad Shett Kankonkar, Reporter, Goa Varta		
5	Amar Chhawara, V.J., NCN		
6	Tukaram V.J. Prudent Media		
7	Deepa R Fulari, Inspector Civil Supply		
8	Pallvi S. Mandrakar, Inspector Civil Supply		
9	Karl P. Desouza		√
10	Roland Martin, Co-ordinator GOACAN		√
11	Fransisco D Souza		
12	M.E.A. Rodrigues		√
13	Lorna Fernandes, Secretary Concolium CCF		√
14	Neil D Souza, Manager Utilities		
15	Sohaib Sheikh, Sr. Reporter, O herald		
16	Vasant Katkar, Chief Reporter, Pudhari		
17	Ramona Almeda, Velim Civic Convener		√
18	Anupa V. P. Khoyida, J.E. GEDA		
19	S. S. Verankar		√
20	Vilas Mahudik, Reporter		
21	Arturd D Souza		√
22	Diana Fernandes		√
23	Lonkik Shilker		
24	M. Durairaj	√	
25	Mohit Steel Industries	√	

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